



# PISA 2018 Released Field Trial and Main Survey New Reading Items

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# A Note on this Update

In 2018, prior to the Main Survey, this report was written to describe items from two units that were not selected for the Main Survey (Chicken Forum and Cow's Milk). Additionally, this report contained items from a unit that had been developed for, but was not administered in, the Field Trial (The Galapagos Islands).

This updated report addresses three areas. First, it presents updated difficulty information for the items assessed in the Field Trial. Second, it expands the number of released items to include the items from Rapa Nui, a unit that was administered in the Main Survey but was not taken forward to the next cycle of PISA. Third, it incorporates a description of the fluency task, a measure of reading components that was tested in the Field Trial and administered in the Main Survey.

## **Reading Literacy – Overview**

Seven items from the Main Survey, fourteen items from the 2018 Field Trial, and seven items from a unit that was not administered in the Field Trial were approved by the Reading Literacy Expert Group for release as sample items. The items are presented within their units as they were designed and in the case of three units, as they were administered in either the Main Survey or the Field Trial. The cognitive process is provided for each released item, showing how the item was classified according to the construct categories in the 2018 Reading Literacy framework that will be used for scaling. Each cognitive process is explained more fully in the framework. A summary from the framework is provided here for reference.<sup>1</sup>

#### **Cognitive Processes**

Successful reading, whether reading a single text or reading and integrating information across multiple texts, requires an individual to perform a range of processes. The 2018 Reading Literacy framework defines several cognitive processes that span a range of difficulty. Each cognitive process is assigned to a superordinate category which will be used for the final scaling of the 2018 Main Survey data: Locate information, Understand, and Evaluate and Reflect. The cognitive processes within each category are briefly defined below.

Locate information

- Access and retrieve information within a text scanning a single text in order to retrieve target information consisting of a few words, phrases or numerical values.
- Search for and select relevant text searching for information among several texts to select the most relevant text given the demands of the item/task.

<sup>&</sup>lt;sup>1</sup> For additional information, please consult the PISA 2018 Reading Framework, https://www.oecd.org/pisa/data/PISA-2018-draft-frameworks.pdf

#### Understand

- Represent literal information comprehending the literal meaning of sentences or short passages, typically matching a direct or close paraphrasing of information in the question with information in a passage.
- Integrate and generate inferences going beyond the literal meaning of information in a text by integrating information across sentences or even an entire passage. Tasks that require the student to create a main idea or to produce a summary or a title for a passage are classified as "integrate and generate inference" items.
- Integrate and generate inferences across multiple sources integrating pieces of information that are located within two or more texts.

#### Evaluate and Reflect

- Assess quality and credibility evaluating whether the information in a text is valid, current, accurate, unbiased, reliable, etc. Readers must identify and consider the source of the information and consider the content and form of the text or in other words, how the author is presenting the information.
- Reflect on content and form evaluating the form of the writing to determine how the author is expressing their purpose and/or point of view. These items often require the student to reflect on their own experience and knowledge to compare, contrast or hypothesize different perspectives or viewpoints.
- Detect and handle conflict determining whether multiple texts corroborate or contradict each other and when they conflict, deciding how to handle that conflict. For example, items classified as "detect and handle conflict" may ask students to identify whether two authors agree on the stance of an issue or to identify each author's stance. In other cases, these items may require students to consider the credibility of the sources and demonstrate that they accept the claims from the more reliable source over the claims from the less reliable source.

#### Texts

Texts can be classified along four different dimensions described in the framework: source, organization and navigation, format, and type. Each dimension is briefly described below.

#### Source

- Single a single unit of text that has an author or a group of authors, a time of writing or publication date and a reference title or number.
- Multiple multiple units of texts where each has a different author, different publication times or have different titles or reference numbers.

Organization and Navigation

- Static texts with simple organization and a low density of navigation tools; typically texts with one or several pages organized in a linear way.
- Dynamic texts with a more complex, non-linear organization and a higher density of navigation tools.

Format

- Continuous texts formed by sentences that are organized into paragraphs.
- Non-continuous texts composed of a number of lists or elements such as tables, graphs, diagrams, advertisements, schedules, catalogues, indexes, forms, etc.
- Mixed texts containing both continuous and non-continuous elements.

#### Туре

- Description texts with information that refers to properties of objects in space. Description texts provide an answer to "what" questions. Examples include a depiction of a place in a travelogue, a catalogue or a process in a technical manual.
- Narration texts with information that refers to objects in time. Narration texts provide answers to "when" or "in what sequence". Examples include a report, a news story, a novel, a short story or a play.
- Exposition texts with explanations of how different elements interrelate in a meaningful way and provide answers to "how" questions. Examples include a scholarly essay, a diagram showing a model of memory, a graph of population trends, or a concept map for an entry in an online encyclopedia.
- Argument texts that present the relationship among concepts or propositions. Argument texts provide answers to "why" questions. An important subclassification of argumentative texts is persuasive and opinionative texts, referring to opinions and points of view. Examples include a letter to the editor, a poster advertisement, posts in an online forum or a review of a book or film.
- Instruction a text that provides instructions on what to do. Examples include a recipe, a series of diagrams showing how to give first aid or guidelines for operating software.
- Transaction a text that aims to achieve a purpose such as requesting that something is done, organizing a meeting or making a social engagement with a friend. Examples include a letter, an email or a text message.

## Scenarios

Reading is a purpose-driven activity; that is, it occurs when a reader wishes to accomplish a particular goal, such as locating information to fill out a form or understanding a topic well enough to participate in a discussion with peers. In many traditional reading assessments, however, the "goal" is simply to answer a few discrete questions about a text on a general topic and then move on to the next. In contrast to this artificial world of traditional reading assessments, the Reading Literacy units developed for 2018 are scenario-based. Each unit begins with a fictional scenario that describes the over-arching goal for reading the text or collection of texts in the unit. Thus, the reader is given both a context and a purpose that helps to shape the way he or she searches for, comprehends, and integrates information.

Scenarios were developed to address a range of situations. The framework describes several types of situations that relate to the overarching scenario developed for each unit:

• Personal – situations that contain text that satisfies an individual's personal interests in both practical and intellectual ways. Examples include personal letters, fiction, biography and informational texts that are read to satisfy curiosity or for leisure as well as personal emails, instant messages and blogs.

- Public situations that contain text that relates to activities and concerns of the society at large.
   Examples include official documents, information about public events, message boards, news websites and public notices.
- Educational situations that contain text designed for the purpose of instruction and that is often chosen by an instructor rather than the reader. Examples include printed or electronic textbooks and interactive learning software.
- Occupational situations that contain text that supports the accomplishment of an immediate task. Examples include texts used to search for a job such as printed classified ads or online job websites, and texts that provide workplace directions.

#### **Released Items**

Below, released items for four units are presented. The unit Rapa Nui was administered in the PISA 2018 Main Survey but was not carried forward to future cycles of PISA. This unit was not selected for future PISA cycles due to the length of the unit and the fact that while the items met quality standards, they were not as strong as items in other units. The units Chicken Forum and Cow's Milk were administered in the PISA 2018 Field Trial. These units were omitted from the Main Survey based on objections to the content within the units<sup>1</sup>; however, most of the items demonstrated strong measurement properties. Two items that did not demonstrate adequate measurement properties have not been released for the unit Cow's Milk.

The unit The Galapagos Islands was omitted prior to the Field Trial based on the recommendation of the Reading Expert Group. While the content and items were acceptable and tapped into elements of digital literacy that are important to assessing reading literacy, the content of the stimuli prepared for the website did not allow for a rich diversity of item types. Thus, in the interest of retaining units that did allow for a richer item diversity, The Galapagos Islands was omitted from the Field Trial. Consequently, the items presented here were not administered and their measurement properties were not ascertained. Nevertheless, some of the items are provided in this report to give the reader an idea of how reading units based on a simulated website with multiple webpages were designed in order to measure students' ability to locate and comprehend information about a topic.

Difficulty information for each item in Rapa Nui, Chicken Forum, and Cow's Milk is provided. No difficulty information can be provided for the items released for The Galapagos Islands because these items were not administered in the Field Trial or the Main Survey.

# Unit CR551: Rapa Nui

#### Rapa Nui Scenario

PISA 2018	
Rapa Nui Introduction	
Read the Introduction. Then click on the NEXT arrow.	-
Imagine that a local library is hosting a lecture next week. The lecture will be given by a professor from a nearby university. She will discuss her field work on the island of Rapa Nui in the Pacific Ocean, over 3200 kilometres west of Chile.	
Your history class will attend the lecture. Your teacher asks you to research the history of Rapa Nui so that you will know something about it before you attend the lecture.	
The first source you will read is a blog entry written by the professor while she was living on Rapa Nui. Click on the NEXT arrow to read the blog.	

In this unit's scenario, the student is preparing to attend a lecture about a professor's field work that was conducted on the island of Rapa Nui. The situation is classified as educational because it represents a student conducting background research on Rapa Nui in preparation for attendance at a lecture.

Rapa Nui is a multi-source unit. It consists of three texts: A webpage from the professor's blog, a book review, and a news article from an online science magazine. The blog is classified as a multiple source text; dynamic (the webpage contains active links to the other texts in the unit); continuous; and narrative. The blog post is an example of a multiple source text because the comment section at the bottom of the blog page represent different authors. Both the book review and the news article are classified as single text; static; continuous; and argumentative.

Initially, the student is provided with the blog post only. Several questions are presented that focus only on the content of this blog. Once those questions have been answered, the student receives the second text, the book review. After reading the book review, the student responds to a question that

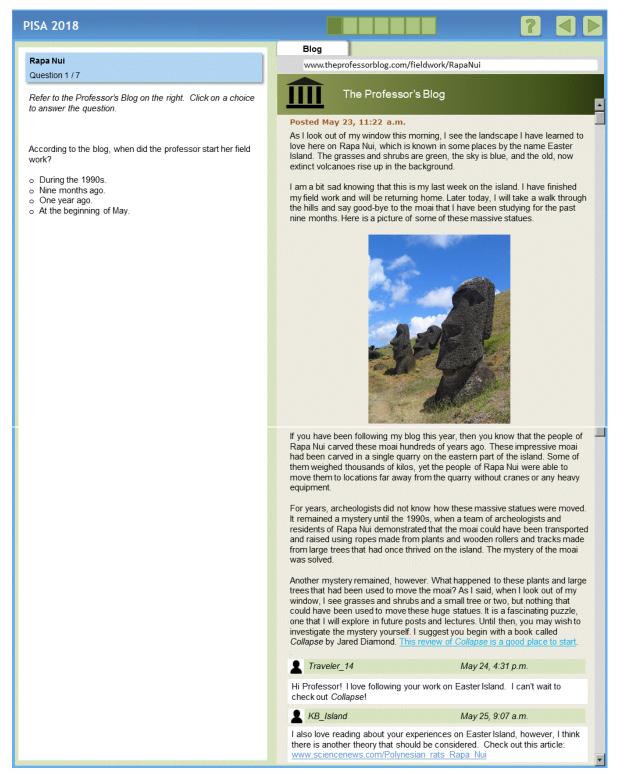
PISA 2018 Released FT and MS Reading Literacy Items

focuses solely on its content. Then, the student receives the third text, the article from the online science magazine. The student sees questions that focus only on the article. After that, the student is given items that require integrating the information from all sources.

This model was used for several of the multiple-text units in the new material developed for Reading Literacy. This approach was chosen because it allows the student first to demonstrate proficiency on questions that relate to one text and then to demonstrate the ability to handle information from multiple texts. This is an important design feature because there may be readers who can succeed with information when it is presented in a single text and even integrate information within one text, but who struggle when asked to integrate *across* multiple texts. Thus, this design allows students with varying levels of ability to demonstrate proficiency on at least some elements of the unit.

The "Rapa Nui" unit was intended to be of moderate to high difficulty. The three texts result in a larger amount of information to work through within the unit compared to a single text unit. In addition, the way the texts relate to one another needs to be considered by the student, requiring him or her to recognize whether they corroborate each other or whether they differ in their stances. This kind of cognitive engagement with the material and the unit overall is expected to require more effort than a unit that presents all the information within one text.

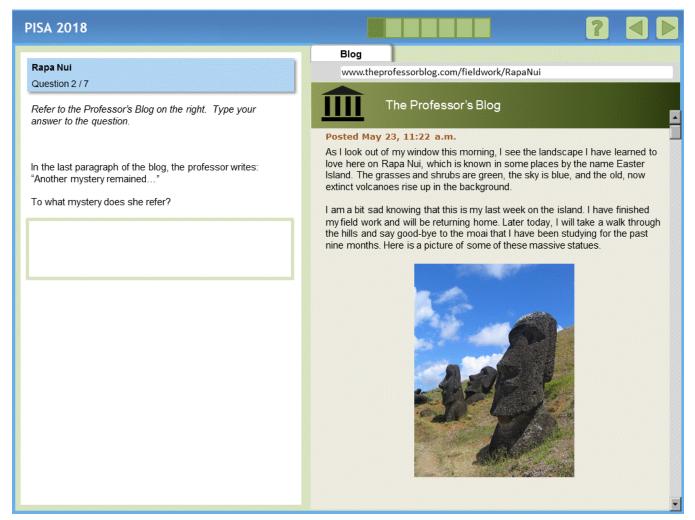
Please note that the screenshot provided for Released Item #1 shows the full text of the blog for the purposes of this report. The student had to scroll to see the full text in the programmed version which was programmed uniformly across language versions so that all students would have to scroll to see the full text.



In this item, the student must locate the correct information within the blog post. Its difficulty is likely driven by the existence of other time-related information within the blog, i.e. the date it was posted and

the time period in which the first mystery of the moai was solved (the 1990s). Here, the correct answer is (B) Nine months ago.

Item Number	CR551Q01
Cognitive Process	Access and retrieve information within a text
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	559 – Level 4



In this item, the student must understand that the second mystery mentioned in the blog post—what happened to the large trees that once grew on Rapa Nui and were used to move the moai? This is an open response – human coded item, and the coding guide used in the Main Survey is provided below. For this item, the student could provide a direct quotation from the blog ("What happened to these plants and large trees that had been used to move the moai?") or an accurate paraphrase. This item was coded with high reliability in the Main Survey.

Item Number	CR551Q05
Cognitive Process	Represent literal meaning
Response Format	Open Response – Human Coded
Source Requirement for Item	Single
Difficulty	513 – Level 3

#### Full Credit

Code 1: Responses refer to the disappearance of the materials used to move the statues (moai).

- What happened to these plants and large trees that had been used to move the moai? [Direct quotation]
- There are no large trees left that could have moved the moai.
- There are grasses, shrubs and some small trees, but no trees large enough to move the large statues.
- Where are the large trees? [Minimal]
- Where are the plants? [Minimal]
- What happened to the resources that were needed to transport the statues?
- She was referring to what moved the Moai because when she looked around there were no big trees or plants. She is also wondering what happened to them. [Although this response begins by referring to the wrong mystery, it contains the correct elements.]

PISA 2018							[	?	
			Blog		Book Review				
Rapa Nui			www.a	academ	nicbookreview.con	n/Collapse			
Question 3 / 7 Refer to the Review of Collapse on the rig choices in the table to answer the questio		k on the			Revie	w of Colla	ose		
Listed below are statements from the Rev Are these statements facts or opinions? C or <b>Opinion</b> for each statement.			consequent describe made a	uences les seve and thei	Id's new book, <i>Col</i> s of damaging our eral civilizations th ir impact on the er ne book is Rapa N	environment. In at collapsed be ivironment. On	n the book, th ecause of the	e autho choices	s they
Is the statement a fact or an opinion?	Fact	Opinion	after 70	0 CE.	he author, Rapa N They developed a he moai, the famo	thriving societ	y of, perhaps,	15,000	people.
In the book, the author describes several civilizations that collapsed because of the choices they made and their impact on the environment.	0	0	island. \ still ther thousan	When t re, but f nd peop	em to move these the first Europeans the trees were go ple who were strug	s landed on Ra ne. The popula ggling to surviv	pa Nui in 172 tion was dowr e. Mr. Diamor	2, the n n to a fe nd write:	noai were w s that the
One of the most disturbing examples in the book is Rapa Nui.	0	0	they over on the is	er-hunt island.	ted the numerous He speculates tha	species of sea t the dwindling	and land bird	s that h	ad lived
They carved the moai, the famous statues, and used the natural resources available to them to move these huge moai to different locations around the island.	0	0	<ul> <li>people of Rapa Nui cleared the land for farming and other purposes and that they over-hunted the numerous species of sea and land birds that had lived on the island. He speculates that the dwindling natural resources led to civil wars and the collapse of Rapa Nui's society.</li> <li>The lesson of this wonderful but frightening book is that in the past, humans made the choice to destroy their environment by cutting down all the trees and hunting animal species to extinction. Optimistically, the author points out, we can choose <b>not</b> to make the same mistakes today. The book is</li> </ul>	e trees ooints					
When the first Europeans landed on Easter Island in 1722, the moai were still there, but the trees were gone.	0	0		well an	id deserves to be				
The book is written well and deserves to be read by anyone who is concerned about the environment.	0	0							

For this item, the student is presented with the second text in the unit, a book review of *Collapse*, which was referenced in the blog post. The student must complete a table by selecting "Fact" or "Opinion" for each row. The question asks the student to identify whether each statement from the book review is a fact or an opinion. The student must first understand the literal meaning of each statement and then decide if the content was factual or represented the perspective of the author of the review. In this way, the student must focus on the content and how it is presented rather than just the meaning. To receive full credit for this item, the student was required to get all 5 rows correct. For partial credit, students were required to get 4 out of the 5 rows correct. If students got fewer than 4 rows correct, they received no credit. The correct answers are: Fact, Opinion, Fact, Fact, Opinion.

Item Number	CR551Q06
Cognitive Process	Reflect on content and form
Response Format	Complex Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	654 – Level 5

	Blog Book Review Science News
Rapa Nui	www.sciencenews.com/Polynesian_rats_Easter_Island
Question 4 / 7	SCIENCE NEWS
Refer to the article "Did Polynesian Rats Destroy Rapa Nui's Trees?" on the right. Click on a choice to answer the ruestion.	Did Polynesian Rats Destroy Rapa Nui's Trees? By Michael Kimball, Science Reporter
Vhat do the scientists mentioned in the article and Jared Diamond agree on?	In 2005, Jared Diamond published <i>Collapse</i> . In the book, he described the human settlement of Rapa Nui (also called Easter Island).
<ul> <li>Humans settled Rapa Nui hundreds of years ago.</li> <li>Large trees have disappeared from Rapa Nui.</li> <li>Polynesian rats ate the seeds of large trees on Rapa Nui.</li> <li>Europeans arrived on Rapa Nui in the 18<sup>th</sup> century.</li> </ul>	The book caused a huge controversy soon after its publication. Many scientists questioned Diamond's theory of what happened on Rapa Nui. They agreed that the huge trees had disappeared by the time Europeans first arrived on the island in the 18 <sup>th</sup> century, but they did not agree with Jared Diamond's theory about the cause of the disappearance.
	Now, two scientists, Carl Lipo and Terry Hunt, have published a new theory. They believe that the Polynesian rat ate the seeds of the trees, preventing new ones from growing. The rat, they believe, was brought over either accidentally or purposefully on the canoes that the first human settlers used to land on Rapa Nui.
	Studies have shown that a population of rats can double every 47 days. That's a lot of rats to feed. To support their theory, Lipo and Hunt point to the remains of palm nuts that show the gnaw marks made by rats. Of course, they acknowledge that humans did play a role in the destruction of the forests of Rapa Nui. But they believe that the Polynesian rat was an even greater culprit among a series of factors.

For this item, the student is presented with the third text in the unit, an article from an online science magazine. Note that at this point in the unit, all three texts are available to the student using a tab structure; the student can click on any tab to toggle back and forth between the texts. The item itself remains fixed on the left side of the screen during any toggling action. In this item, the student is required to locate the section of the article that contains the reference to the scientists and Jared Diamond (paragraph 2) and identify the sentence that contains the information agreed upon. While texts are available to the student, this item is not classified with a cognitive process that reflects the use of multiple sources. This is because the student can find the answer within this text, and the item instructions on the upper left corner instruct the student to refer to this article only. Thus, the support from the item instructions eliminates the need to consider the other sources. The difficulty of this item is likely driven by the existence of plausible (but incorrect) distracting information within the paragraph with respect to human settlement. Here, the correct answer is (B) Large trees have disappeared from Rapa Nui.

Item Number	CR551Q08
Cognitive Process	Access and retrieve information within a text
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	634 – Level 5

	Blog Book Review Science News					
Rapa Nui Question 5 / 7	www.sciencenews.com/Polynesian_rats_Easter_Island					
	SCIENCE NEWS					
Refer to the article "Did Polynesian Rats Destroy Rapa Nui's Trees?" on the right. Click on a choice to answer the question.	Did Polynesian Rats Destroy Rapa Nui's Trees? By Michael Kimball, Science Reporter					
<ul> <li>What evidence do Carl Lipo and Terry Hunt present to support their theory of why the large trees of Rapa Nui disappeared?</li> <li>The rats arrived on the island on settlers' canoes.</li> <li>The rats may have been brought by the settlers purposefully.</li> <li>Rat populations can double every 47 days.</li> <li>The remains of palm nuts show gnaw marks made by rats.</li> </ul>	In 2005, Jared Diamond published <i>Collapse</i> . In the book, he described the human settlement of Rapa Nui (also called Easter Island). The book caused a huge controversy soon after its publication. Many scientists questioned Diamond's theory of what happened on Rapa Nui. They agreed that the huge trees had disappeared by the time Europeans first arrived on the island in the 18 <sup>th</sup> century, but they did not agree with Jared Diamond's theory about the cause of the disappearance. Now, two scientists, Carl Lipo and Terry Hunt, have published a new theory. They believe that the Polynesian rat ate the seeds of the trees, preventing new ones from growing. The rat, they believe, was brought over either accidentally or purposefully on the canoes that the first human settlers used to land on Rapa Nui. Studies have shown that a population of rats can double every 47 days. That's a lot of rats to feed. To support their theory, Lipo and Hunt point to the remains of palm nuts that show the gnaw marks made by rats. Of course, they acknowledge that humans did play a role in the destruction of the forests of Rapa Nui. But they believe that the Polynesian rat was an even greater culprit among a series of factors.					

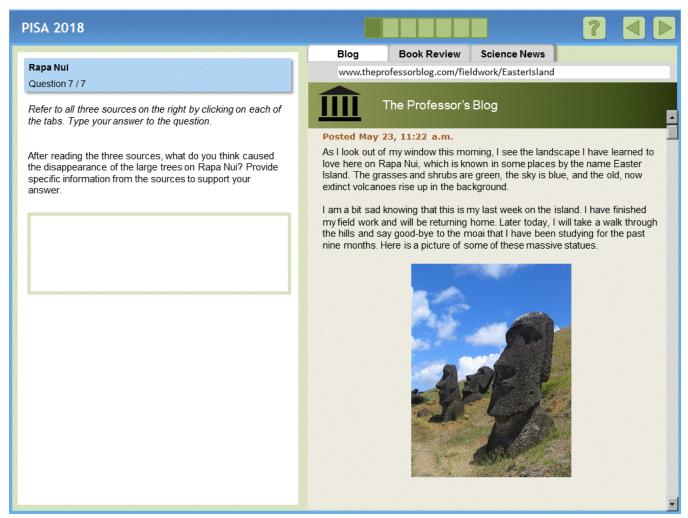
In this item, the student is required to understand what information in the text supports, or corroborates, the theory put forward by the scientists. The correct answer is (D) The remains of palm nuts show gnaw marks made by rats. Here, the student must go beyond an understanding of the text and identify which element of the text can be used as evidence to support a claim. All other items classified as detect and handle conflict require detecting a conflict between two sources or recognizing that the information in two or more sources and is corroborated. However, in discussing this item prior to the Field Trial, the experts felt that the act of identifying which piece of information supports the theory proposed by Carl Lipo and Terry Hunt was most appropriately identified by the cognitive process of detect and handle conflict. Furthermore, while this item could be classified as requiring only a single source, the requirement for the student to first consider the theory proposed by Lipo and Hunt and then to determine which evidence supports the theory is akin to working with multiple sources.

Item Number	CR551Q09
Cognitive Process	Detect and handle conflict
Response Format	Simple Multiple Choice – Computer Scored
Source Required for Item	Multiple
Difficulty	597 – Level 4

			Blog	Book Review	Science News	
Rapa Nui Question 6 / 7			www.thep	orofessorblog.com/fie	dwork/EasterIsland	
	sources on the right by	clicking on each of		The Professor's	Blog	
	e causes, and the effect correct places in the tal		As I look out love here on Island. The g	Rapa Nui, which is kn rasses and shrubs are	rning, I see the landscape I have lea own in some places by the name Ea green, the sky is blue, and the old,	aster
Cause	Effect	Supporters of the Theory		loes rise up in the bac	kground. ny last week on the island. I have fir	nished
		Jared Diamond	my field work the hills and s	and will be returning ay good-bye to the m	home. Later today, I will take a walk loai that I have been studying for the ome of these massive statues.	through
		Carl Lipo and Terry Hunt				
The moai were carved in the same quarry.	Polynesian rats ate tree seeds and as a result no new trees could grow.	Settlers used canoes to bring Polynesian rats to Rapa Nui.		1	P.	
The large trees disappeared froi Rapa Nui.	Rapa Nui residents needed natural resources to move the moai.	Humans cut down trees to clear land for agriculture and other reasons.				

In this item, students must integrate information across the texts with respect to the differing theories put forward by Jared Diamond on the one hand and Carl Lipo and Terry Hunt on the other. The student must identify the shared effect (the disappearance of the large trees) by rejecting information presented in the blog post about where the moai were carved (in the same quarry). Further, the student must understand what each scientist believes is the cause of the disappearance. To receive credit for this item, the student was required to get all three answers correct. The correct answers are: Cause (Jared Diamond) – Humans cut down trees to clear land for agriculture and other reasons. Cause (Carl Lipo and Terry hunt) – Polynesian rats ate tree seeds and as a result no new trees could grow. Effect (shared) – The large trees disappeared from Rapa Nui.

Item Number	CR551Q10
Cognitive Process	Integrate and generate inferences across multiple
	sources
Response Format	Complex Multiple Choice – Computer Scored
Source Requirement for Item	Multiple
Difficulty	665 – Level 5



In this item, the student must integrate information from across the texts and decide which theory to support. In this way, the student must understand the theories—and that they are at odds with one another—and must present a response that contains support from the texts. To receive credit, a student could choose to support either theory or could choose neither theory as long as the explanation is focused on the need for additional research. This is an open response - human coded item, and the coding guide used in the Main Survey is provided below. This item was coded with high reliability in the Main Survey.

Item Number	CR551Q11
Cognitive Process	Detect and handle conflict
Response Format	Open Response – Human Coded
Source Requirement for Item	Multiple
Difficulty	588 – Level 4

#### Full Credit

- Code 1: Includes one or more of the following descriptions:
  - 1. The people cut down or used the trees (to move the moai and/or cleared the land for agriculture).
  - 2. The rats ate the seeds of the trees (so new trees could not grow).
  - 3. It is not possible to say exactly what happened to the large trees until further research is conducted.
    - I think the trees disappeared because people cut too many of them down to move the moai. [1]
    - People cleared the land for agriculture. [1]
    - Trees were used to move moai. [1]
    - People cut the trees down. [1]
    - It was the people's fault because they wanted to move the moai. [1 this response doesn't explicitly refer to cutting down the trees, but it is acceptable because they refer to people and one reason they cut down the trees (to move the moai)]
    - People's fault. They destroyed the environment. [1 this response doesn't explicitly refer to cutting down the trees, but it is an acceptable way of summarizing the results of cutting down the trees.]
    - I think the rats probably caused the most damage by eating the seeds of the trees. [2]
    - The rats ate the seeds. [2]
    - There is no proof that either one is correct, so we have to wait until there is more information. [3]
    - Both. The people cut down the big trees for farming, and then the rats ate the tree seeds! [1 and 2]

# Unit CR548: Chicken Forum

#### **Chicken Forum Scenario**

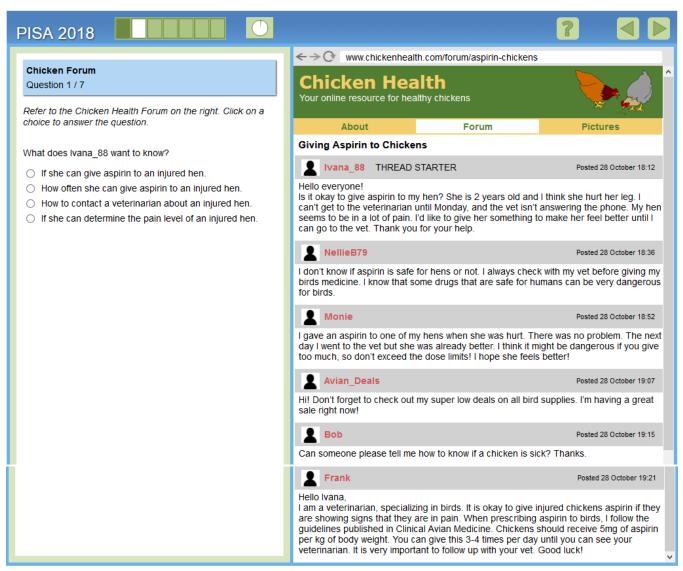
PISA 2018		
Chicken Forum Introduction		
Read the Introduction. Then click on the NEXT arrow.		
You are visiting your relatives, who recently moved to a farm to raise chickens. You ask your aunt, "How did you learn how to raise chickens?" She says, "We talked to a lot of people who raise chickens. And, there are lots of resources on the Internet. For example, there is a Chicken Health forum that I like to visit. It was very helpful to me recently when one of my hens hurt her leg. "II show you the conversation I had." Click on the NEXT arrow to read the forum.	1	

In this unit's scenario, the student is visiting family members who raise chickens. The aunt describes an Internet forum that focuses on chicken health and was a useful resource when one of her chickens was injured. The situation is classified as personal because it represents an individual satisfying personal interests through an Internet forum.

The text in this unit is the set of posts on the web forum used by the aunt. It is classified as: multiple text (the posts on the forum are written by distinct authors at different times); static (while the original conversation would have unfolded dynamically, the student is presented with the full and final conversation; continuous; and transactional.

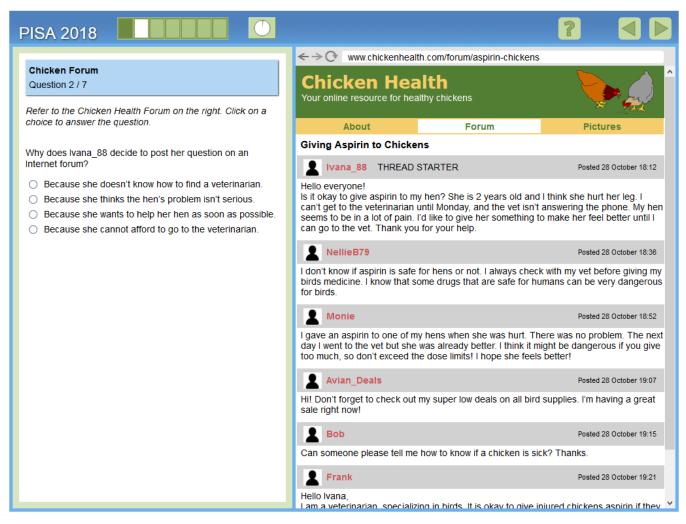
This text was designed to be accessible for a wide range of student abilities. It is short, but it possesses all the complexities of multiple texts where multiple points of view need to be considered, and the origin and content of the posts need to be evaluated to determine credibility. In this way, the test developers felt that even low ability students would have a chance to succeed when faced with a transactional, multiple text.

Please note that the screenshot provided for Released Item #1 shows the full text of the forum for the purposes of this report. The student had to scroll to see the full text in the programmed version.



In this item, the student must consider Ivana\_88's post and understand the literal meaning of the post. The student must match the paraphrase of Ivana\_88's initial question (Is it okay to give aspirin to my hen?) to the options in the item. This not simply an "Access and retrieve information within a text" item because there is not a direct, verbatim match between the item options and the stimulus. Here, the correct answer is (A) If she can give aspirin to an injured hen. The fact that the forum has posts from different authors created at different times means that the stimulus is a multiple source text. However, this item is classified as requiring a single source because the formulation of the item focuses the students solely on Ivana\_88's post. In this way, the student only needs to understand the first post.

Item Number	CR548Q02
Cognitive Process	Represent literal meaning
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	328 – Level 1b



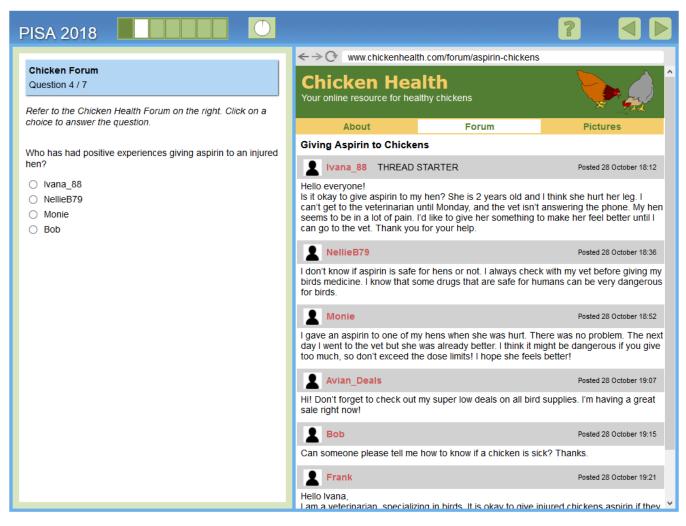
In this item, the student must understand Ivana\_88's post at a deeper level than in the previous item. The student must go beyond what is represented literally in the post (I can't get to the veterinarian until Monday, and the vet isn't answering the phone) and the full context of her post to identify the correct answer. Here, the correct answer is (C) Because she wants to help her hen as soon as possible. The student can infer that because her hen is in a lot of pain and she is not able to get a quick response in another way (going to the vet or calling), she has posted on the forum. Similar to the first item, the formulation of the item focuses the student solely on Ivana\_88's post which means that a single source is required for the item.

Item Number	CR548Q03
Cognitive Process	Integrate and generate inferences
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	357 – Level 1a

		1	← → C www.chickenhea	lth.com/forum/aspirin-chicker	IS
Chicken Forum Question 3 / 7		Chicken Hea Your online resource for hea			
Refer to the Chicken Health Forum on the r choices in the table to answer the question.	ight. Click	on the	About	Forum	Pictures
)			Giving Aspirin to Chicke	ens	
Some posts on a forum can be relevant to t come posts are not. Click on either <b>Yes</b> or <b>I</b> whether the posts in the table below are relevant.	<b>No</b> to indica		Ivana_88 THREAD	STARTER	Posted 28 October 18:12
vana_88's problem.			Hello everyone! Is it okay to give aspirin to m	ny hen? She is 2 years old ar	nd I think she hurt her leg. I
Is the post relevant to Ivana_88's problem?	Yes	No	can't get to the veterinarian	until Monday, and the vet isn I'd like to give her something	o't answering the phone. My he to make her feel better until l
NellieB79's post	0	0	NellieB79		Posted 28 October 18:3
Monie's post	0	0	-	for hens or not I always che	ck with my vet before giving n
Avian_Deals's post	0	0			humans can be very dangerou
Bob's post	0	0			
Frank's post	0	0	Monie		Posted 28 October 18:52
			day I went to the vet but she		There was no problem. The ne might be dangerous if you giv els better!
			Avian_Deals		Posted 28 October 19:07
			Hi! Don't forget to check out sale right now!	my super low deals on all bi	rd supplies. I'm having a great
			Bob		Posted 28 October 19:15
			Can someone please tell me	e how to know if a chicken is :	sick? Thanks.
			<b>Frank</b>		Posted 28 October 19:21

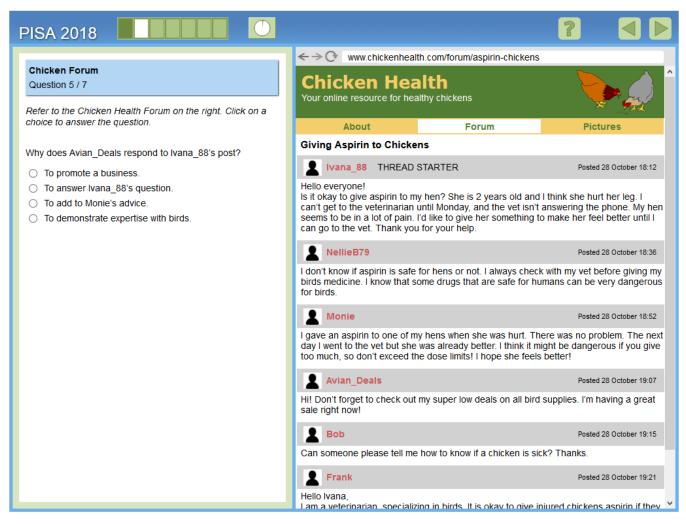
In this item, the student must complete a table by selecting "Yes" or "No" for each row. The question asks the student to identify whether each post in the forum is relevant to the topic. The student must first understand the literal meaning of each post and then reflect on the content and how it relates to the main topic – Giving Aspirin to Chickens. To receive credit for this item, the student was required to get all 5 rows correct. The correct answers are: Yes, Yes, No, No, Yes. Here, the student must consider the content of Ivana\_88's post and then evaluate whether each post in the table is relevant or not. Thus, this item is best classified as requiring multiple sources.

Item Number	CR548Q01
Cognitive Process	Reflect on content and form
Response Format	Complex Multiple Choice – Computer Scored
Source Requirement for Item	Multiple
Difficulty	458 – Level 2



In this item, the student is required to understand the literal meaning of the posts by Ivana\_88, NellieB79, Monie and Bob. If the student has understood the literal meaning of each, the student would understand that Ivana\_88 is asking about whether she can give aspirin to a hen, NellieB79 is warning Ivana\_88 about giving medicine to hens, Bob has posted something irrelevant, and it is Monie who has said she has given aspirin to her hen and it was okay. Here, the correct answer is (C) Monie. This item is classified as requiring only a single source because the student can evaluate each post independently with respect to whether each one states a positive experience.

Item Number	CR548Q04
Cognitive Process	Represent literal meaning
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	328 – Level 1b



In this item, the student must go beyond the literal meaning provided in the text of Avian\_Deals's post and make an inference about why this person has made the post. The post by Avian\_Deals does not explicitly state that they are promoting their business, thus the student must infer that from the information provided in the post. The correct answer is (A) To promote a business. This item is classified as requiring a single source because ultimately, the student only needs to understand the content of the post by Avian\_Deals even though the item refers to Ivana\_88's post. No integration is required across posts.

Item Number	CR548Q05
Cognitive Process	Integrate and generate inferences
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	347 – Level 1a

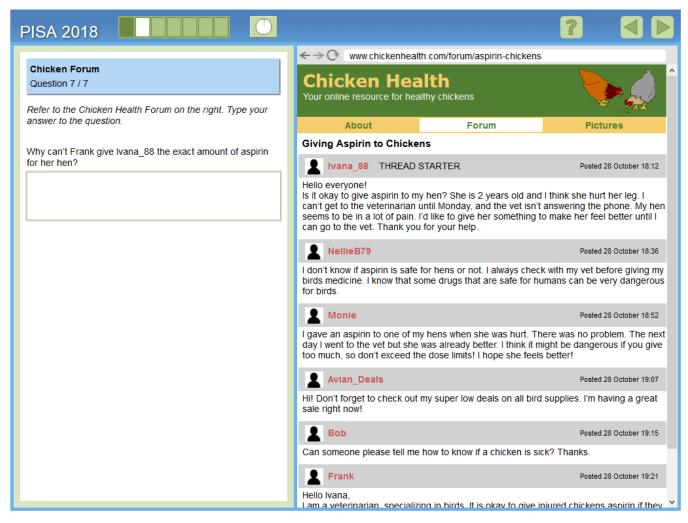
PISA 2018			? 🛛 🕨	
	← → O www.chickenhealth.com/forum/aspirin-chickens			
Chicken Forum Question 6 / 7	Chicken Hea Your online resource for hea		- 🔪 🌧 î	
Refer to the Chicken Health Forum on the right. Click on a choice and then type an explanation to answer the question.		·	×	
	About	Forum	Pictures	
Who posted the most reliable answer to lvana_88's question?	Giving Aspirin to Chicke			
O NellieB79	Vana_88 THREAD	STARTER	Posted 28 October 18:12	
O Monie	Hello everyone! Is it okay to give aspirin to m	ly hen? She is 2 years old and	I think she hurt her leg. I	
<ul> <li>Avian_Deals</li> <li>Frank</li> </ul>	can't get to the veterinarian	until Monday, and the vet isn't I'd like to give her something t	answering the phone. My hen	
Give a reason for your answer.	NellieB79		Posted 28 October 18:36	
			k with my vet before giving my umans can be very dangerous	
	Monie		Posted 28 October 18:52	
	day I went to the vet but she	ny hens when she was hurt. The was already better. I think it m he dose limits! I hope she feels		
	Avian_Deals		Posted 28 October 19:07	
	Hi! Don't forget to check out sale right now!	my super low deals on all bird	supplies. I'm having a great	
	Bob		Posted 28 October 19:15	
	Can someone please tell me	e how to know if a chicken is si	ck? Thanks.	
	Frank		Posted 28 October 19:21	
	Hello Ivana, Lama veterinarian specializ	ring in birds. It is okay to give i	niured chickens aspirin if thev	

This item asks the student to consider the elements of quality and credibility of the four posts by NellieB79, Monie, Avian\_Deals and Frank, requiring multiple sources to accurately complete the item. The student must first represent the literal meaning of each post and then think about what elements of each post make it a reliable answer to Ivana\_88's question. This is an open response – human coded item, and the coding guide used in the Field Trial is provided below. For this item, the student could select any option except Avian\_Deals and receive credit provided that the student gave one of the correct elements described below which supports why the selection is reliable. This item was coded with high reliability in the Field Trial.

Item Number	CR548Q07
Cognitive Process	Assess quality and credibility
Response Format	Open Response – Human Coded
Source Requirement for Item	Multiple
Difficulty	409 – Level 2

#### Full Credit

- Code 1: Selects or responds NellieB79 explicitly or implicitly AND states that NellieB79's answer implied that Ivana\_88 should check with her veterinarian before giving any medicine to her hen.
  - [NellieB79] Nellie said she asks her vet first.
  - [No selection] NellieB79 didn't tell Ivana\_88 what to do, but she said she checks with her vet before she gives medicine.
- OR: Selects or responds Monie explicitly or implicitly AND states that Monie gave aspirin to her own hen, and the hen recovered.
  - [Monie] Monie gave aspirin to her hen, and the bird got better.
  - [Monie] Monie has a hen that recovered when she gave her aspirin.
- OR: Selects or responds Frank explicitly or implicitly AND states that Frank is a veterinarian/bird specialist or has knowledge about treating birds.
  - [Frank] He's a veterinarian.
  - [Frank] Frank specializes in birds.
  - [Frank] Frank knows the dosage guidelines for chickens.
  - [No selection] Frank talks about a book about bird medicine.



In this item, the student must integrate information from across the posts by Ivana\_88 and Frank. The student must understand what Frank has provided in his post (the dosage information - 5mg of aspirin per kg of body weight) and understand what he has not provided (the exact amount of aspirin Ivana\_88 should use for her hen). The student must then understand why. This is because Ivana\_88 has not provided the weight of her hen, which is what Frank needs to know in order to provide the exact amount of aspirin. This is an open response – human coded item, and the coding guide used in the Field Trial is provided below. This item was coded with high reliability in the Field Trial.

Item Number	CR548Q09
Cognitive Process	Integrate and generate inferences across multiple
	sources
Response Format	Open Response – Human Coded
Source Requirement for Item	Multiple
Difficulty	466 – Level 2

#### Full Credit

Code 1: States that the weight or size of the chicken was not provided/is not known.

- Ivana\_88 didn't include the weight of her chicken in her post.
- Frank doesn't know how much her chicken weighs.
- The chicken's weight is missing.
- The size of the chicken is not known.

## Unit CR557: Cow's Milk

#### **Cow's Milk Scenario**

PISA 2018	
Cow's Milk Introduction	
Read the Introduction. Then click on the NEXT arrow.	
In some places, like the United States, drinking cow's milk is common. Imagine that three students, Anna, Christopher and Sam, are at a coffee shop in the United States. The owner recently placed a sign in the window that stated: "After April 5th we will no longer serve cow's milk here. Instead, we will offer a milk substitute made from soy." Anna, Christopher and Sam are curious about why the coffee shop would stop serving cow's milk, so Anna does an Internet search on her smartphone for "cow's milk". They look at the first result and discuss it. Click on the NEXT arrow to read the first source.	

In this unit's scenario, three students in the United States encounter an announcement at a coffee shop. The announcement states that the shop will no longer be serving cow's milk and will, instead, use a soy substitute. The three students are curious, so they search for information about cow's milk on their smartphones and discuss the results. The situation is classified as personal because it represents three individuals (the students in the coffee shop) satisfying their personal curiosity by reading the text.

The text in this unit consists of two webpages. The first webpage is from "Farm to Market Dairy" a business that sells dairy products, including cow's milk. The second webpage is from a health website and presents an article entitled "Just Say 'No' to Cow's Milk". The text is classified as: multiple text; static; continuous; and argumentative.

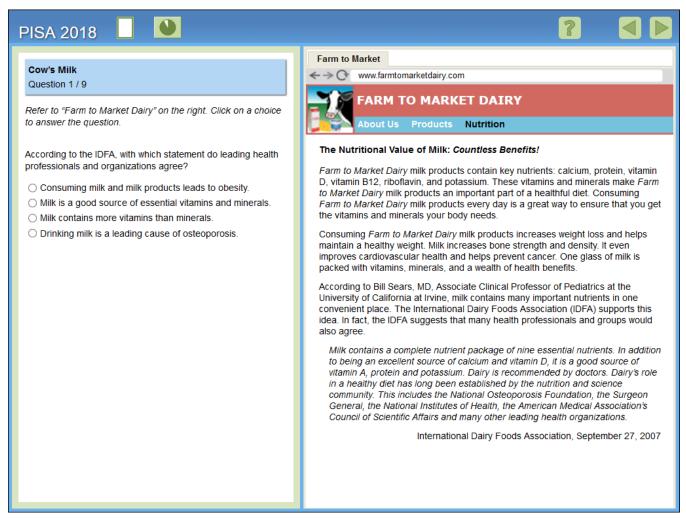
Initially, the student is provided with the "Farm to Market" webpage only. Several questions are presented that focus only on the content of this webpage. Then, an update to the scenario is presented, and the student receives the second webpage. After reading the second webpage, the student

responds to a set of questions that focus solely on its content. Then, the student is given items that require integrating the information from both webpages.

This model was used for several of the multiple-text units in the new material developed for Reading Literacy. This approach was chosen because it allows the student first to demonstrate proficiency on questions that relate to one text and then to demonstrate the ability to handle information from multiple texts. This is an important design feature because there may be readers who can succeed with information when it is presented in a single text and even integrate information within one text, but who struggle when asked to integrate *across* multiple texts. Thus, this design allows students with varying levels of ability to demonstrate proficiency on at least some elements of the unit.

The "Cow's Milk" unit was intended to be of moderate difficulty. The two webpages result in a larger amount of information to work through within the unit compared to a single text unit. In addition, the way the two webpages relate to one another needs to be considered by the student, requiring him or her to recognize whether they corroborate each other or whether they differ in their stances. This kind of cognitive engagement with the material and the unit overall is expected to require more effort than a unit that presents all the information within one text.

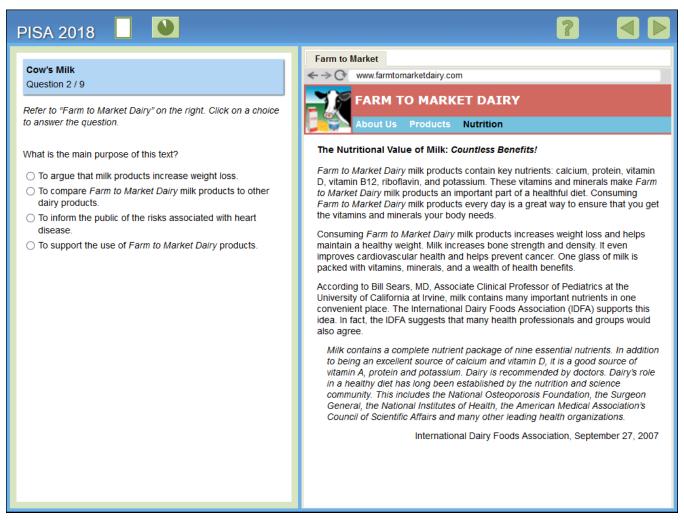
#### Cow's Milk Released Item #1



The unit starts with an item that requires the student to represent the literal meaning of the information presented by the IDFA. Specifically, the student needs to understand that the IDFA suggests "many health professionals and groups would also agree" that "Milk contains a complete nutrient package of nine essential nutrients" and goes on to list vitamins that occur in milk. Thus, the question stem connects fairly directly with the sentence in the webpage that introduces the quote from the IDFA and option B provides a paraphrase of the first two sentences in the quotation. The student does not have to go beyond the literal meaning presented in the webpage to find that the correct answer is (B) Milk is a good source for essential vitamins and minerals.

Item Number	CR557Q03
Cognitive Process	Represent literal meaning
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	323 – Level 1b

### Cow's Milk Released Item #2



In this item, the student is asked to identify the main *purpose* of the webpage. Note that the student is not asked to identify the main idea. Instead, the student must understand the overall meaning of the webpage and then consider *why* it is being presented and *how* it has been written. The student must reflect on the content and form of the text. Here, the correct answer is (D) To support the use of *Farm to Market Dairy* products.

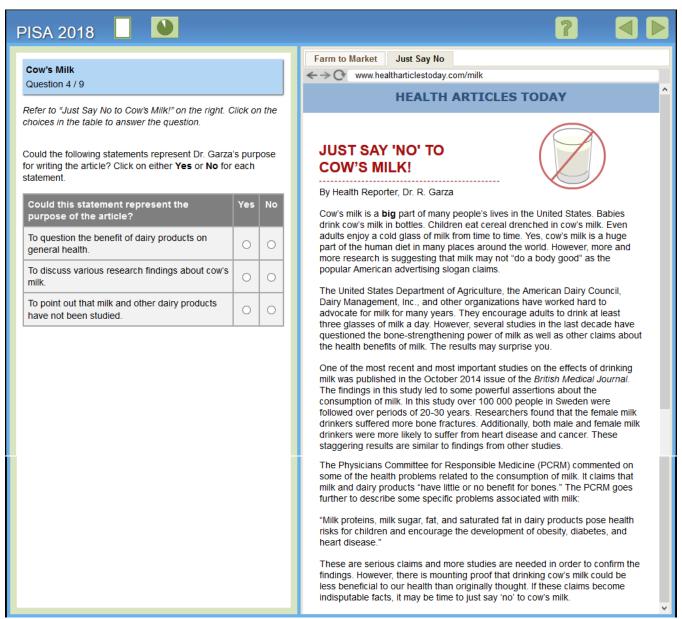
Item Number	CR557Q04
Cognitive Process	Reflect on content and form
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Single
Difficulty	452 – Level 2

## **Cow's Milk Scenario Update**

PISA 2018		?	
Cow's Milk			
Read the informati	on below. Then click on the NEXT arrow.		
	Anna, Christopher and Sam are talking about the decision of the coffee shop owner to stop selling cow's n Sam says, "Maybe cow's milk is becoming too expensive." Christopher is looking at his smartphone. "Mayb but I did a web search on cow's milk too. I'm going to text you the link to a more recent article that may exp it." Anna and Sam open the link Christopher sent and read the article, "Just Say 'No' to Cow's Milk!" Click on the NEXT arrow to read the second source.	be,	

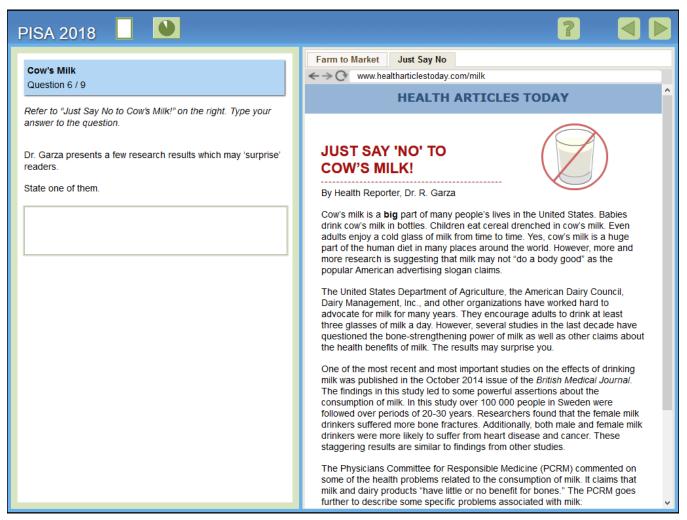
At this point in the unit, the student reads an update to the scenario, learning that one of the students in the scenario finds a different article about cow's milk and shares it with his friends. The article is called "Just Say 'No' to Cow's Milk!", which indicates that this article may not present such favorable information about cow's milk.

Please note that the screenshot provided for Released Item #3 shows the full text of the article for the purposes of this report. The student must scroll to see the full text in the programmed version.



In this item, the student must complete a table by selecting "Yes" or "No" for each row. The question asks the student to identify whether each row of the table could represent Dr. Garza's purpose for writing the article. The student must first understand the overall meaning of the article, then reflect on the content of the article and how it is presented. Then, the student must evaluate whether each statement in the table accurately represents a purpose for writing the article. To receive credit for this item, the student was required to get all 3 rows correct. The correct answers are: Yes, Yes, No.

Item Number	CR557Q07			
Cognitive Process	Reflect on content and form			
Response Format	Complex Multiple Choice – Computer Scored			
Source Requirement for Item	Single			
Difficulty	539 – Level 3			



This item asks the student to identify the research results reported in the article and to state one of them. Here, the student needs to represent the literal meaning of information in the article by identifying one of the findings and providing it. Note that in the coding guide used for the Field Trial, there were only two findings that were allowed for this item because there were only two "surprising" <u>research</u> results described. The coding guide that was used in the Field Trial is provided below. This item was coded with high reliability in the Field Trial.

Item Number	CR557Q10
Cognitive Process	Represent literal meaning
Response Format	Open Response – Human Coded
Source Requirement for Item	Single
Difficulty	398 – Level 3

#### Full Credit

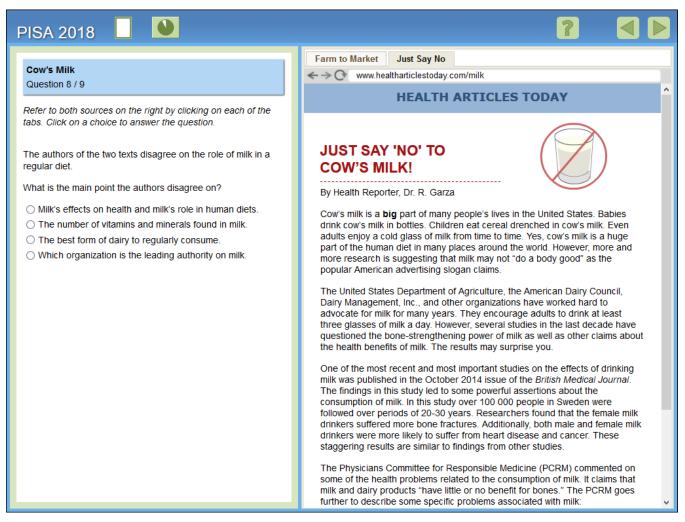
Code 1: Quotes or paraphrases one of the following <u>research results</u> stated in the text:

- 1. Female milk drinkers suffered more bone fractures.
- 2. Both male and female milk drinkers were more likely to suffer from heart disease and cancer.
  - Women who drank milk had more broken bones.
  - People who drink milk had more heart disease and cancer.

ISA 2018 🔟 🔍			? <
Cow's Milk			Farm to Market Just Say No
Question 7 / 9			← → O www.healtharticlestoday.com/milk
Refer to both sources on the right by clicking on each of the tabs. Click on the choices in the table to answer the question.			HEALTH ARTICLES TODAY
Based on the two texts about milk, are the sta able below facts or opinions? Click on either or each statement.	atement	ts in the	JUST SAY 'NO' TO COW'S MILK! By Health Reporter, Dr. R. Garza
Is the statement a fact or an opinion?	Fact	Opinion	Cow's milk is a <b>big</b> part of many people's lives in the United States. Babies
Recent studies on the health benefits of milk are surprising.	0	0	drink cow's milk in bottles. Children eat cereal drenched in cow's milk. Even adults enjoy a cold glass of milk from time to time. Yes, cow's milk is a huge part of the human diet in many places around the world. However, more and
Studies have shown that drinking milk has detrimental health effects.	0	0	more research is suggesting that milk may not "do a body good" as the popular American advertising slogan claims.
Several studies have questioned the bone strengthening power of milk.	0	0	The United States Department of Agriculture, the American Dairy Council, Dairy Management, Inc., and other organizations have worked hard to advocate for milk for many years. They encourage adults to drink at least
Drinking milk and other dairy products is the best way to lose weight.	0	0	three glasses of milk a day. However, several studies in the last decade have questioned the bone-strengthening power of milk as well as other claims about the health benefits of milk. The results may surprise you.
			One of the most recent and most important studies on the effects of drinking milk was published in the October 2014 issue of the <i>British Medical Journal</i> . The findings in this study led to some powerful assertions about the consumption of milk. In this study over 100 000 people in Sweden were followed over periods of 20-30 years. Researchers found that the female milk drinkers suffered more bone fractures. Additionally, both male and female milk drinkers were more likely to suffer from heart disease and cancer. These staggering results are similar to findings from other studies.
			The Physicians Committee for Responsible Medicine (PCRM) commented on some of the health problems related to the consumption of milk. It claims that milk and dairy products "have little or no benefit for bones." The PCRM goes further to describe some specific problems associated with milk:

In this item, the student must integrate information across both webpages and infer whether the statements in the table represent facts that were presented in the webpages or represent opinions that were presented in the webpages. For this item, full credit was awarded if the student got all 4 correct, and partial credit was awarded if the student got 3 out of 4 correct. The correct answers are: Opinion, Fact, Fact, Opinion.

Item Number	CR557Q12			
Cognitive Process	Integrate and generate inferences across multiple			
	sources			
Response Format	Complex Multiple Choice – Computer Scored			
Source Requirement for Item	Multiple			
Difficulty	662 – Level 5			



In this item, the student must understand how each webpage describes the role of milk within a regular diet and must be able to identify the main point on which they disagree. This is a "Detect and handle conflict" item, but it is easier than many others presented in the PISA 2018 Field Trial because the item already lets the student know that there is a conflict between the two webpages. We expect the difficulty of these types of items to increase when the student first has to detect whether or not a conflict exists, then determine what the conflict is, and then figure out how to handle the conflict. Here, the correct answer is (A) Milk's effects on health and milk's role in human diets.

Item Number	CR557Q13
Cognitive Process	Detect and handle conflict
Response Format	Simple Multiple Choice – Computer Scored
Source Requirement for Item	Multiple
Difficulty	406 – Level 1a

PISA 2018	? 🔍 🕨						
	Farm to Market Just Say No						
Cow's Milk Question 9 / 9	← → O www.healtharticlestoday.com/milk						
	HEALTH ARTICLES TODAY						
Refer to both sources on the right by clicking on each of the tabs. Click on a choice and then type an explanation to answer the question.	JUST SAY 'NO' TO						
Anna, Christopher and Sam are talking about the two texts.	COW'S MILK!						
Christopher: No matter what the coffee shop owner does, I'm going to keep drinking milk every day. It's really good for you. Anna: Not me! I'm going to drink a lot less milk from now on if it's not good for you. Sam: I don't know, I think we need to know more before we make a conclusion. With whom do you agree? O Christopher	By Health Reporter, Dr. R. Garza Cow's milk is a <b>big</b> part of many people's lives in the United States. Babies drink cow's milk in bottles. Children eat cereal drenched in cow's milk. Even adults enjoy a cold glass of milk from time to time. Yes, cow's milk is a huge part of the human diet in many places around the world. However, more and more research is suggesting that milk may not "do a body good" as the popular American advertising slogan claims. The United States Department of Agriculture, the American Dairy Council, Dairy Management, Inc., and other organizations have worked hard to advocate for milk for many years. They encourage adults to drink at least three glasses of milk a day. However, several studies in the last decade have						
○ Anna	the health benefits of milk. The results may surprise you.						
⊖ Sam	One of the most recent and most important studies on the effects of drinking						
Explain your answer. Refer to information from at least one of the texts.	milk was published in the October 2014 issue of the <i>British Medical Journal</i> . The findings in this study led to some powerful assertions about the consumption of milk. In this study over 100 000 people in Sweden were followed over periods of 20-30 years. Researchers found that the female milk drinkers suffered more bone fractures. Additionally, both male and female milk drinkers were more likely to suffer from heart disease and cancer. These staggering results are similar to findings from other studies.						
	The Physicians Committee for Responsible Medicine (PCRM) commented on some of the health problems related to the consumption of milk. It claims that milk and dairy products "have little or no benefit for bones." The PCRM goes further to describe some specific problems associated with milk:						

In this item, the student reads three stances provided in the item stem: one that supports continuing to drink milk, one that supports drinking less milk and one that says more needs to be known before a conclusion is reached. The student can select any of the three students in the scenario associated with these stances, but the student must provide a reason from at least one of the texts to support his or her selection. The coding guide for this item is provided below, which lists the acceptable ways a student can support their selection for each of the three options.

This item focuses mainly on the element of handling the conflict rather than detecting it. By asking the student to come to a conclusion and use the webpage or webpages to support the answer, the student demonstrates how he or she handles the conflict between the information presented in the two webpages.

Please note that this item was very challenging to code in the Field Trial, and several countries had difficulty achieving reliable coding. It is not clear to the Test Developers how the coding guide would have been improved, thus, this item would have likely been eliminated for the Main Survey if the unit had not been omitted. However, it is included here for the purpose of illustrating an open response, "detect and handle conflict" item.

Item Number	CR557Q14			
Cognitive Process	Detect and handle conflict			
Response Format	Open Response – Human Coded			
Source Requirement for Item	Multiple			
Difficulty	506 – Level 3			

#### Full Credit

Code 1: Selects one of the names and gives an appropriate explanation as described below. If a name is not selected, responses clearly state a choice for Christopher, Anna, or Sam and provide an explanation for the choice by referring to one of the texts.

Selects "Christopher" and provides one or more of the explanations below from the first text, "The Nutritional Value of Milk: *Countless Benefits!*" OR mentions that the second text "Just Say 'No' to Cow's Milk!" isn't balanced/objective.

- 1. Milk contains (key) nutrients/many vitamins/minerals/specifically mentions one or more vitamin or mineral (e.g. potassium) that is important for good health.
- 2. Milk increases weight loss/helps maintain a healthy weight.
- 3. Milk improves cardiovascular health.
- 4. Milk prevents cancer.
- 5. The Farm to Market webpage uses support from a doctor.
- 6. The Farm to Market webpage cites the International Dairy Foods Association/provides support from the IDFA.
- 7. The "Just Say 'No' to Cow's Milk!" article/second text is not balanced/is not objective or gives an example of how it isn't balanced or objective.
  - [Christopher] A doctor says it contains many important nutrients. [Explanation 1/5]
  - [Christopher] Milk has minerals we need to be healthy. [Explanation 1]
- OR: Selects "Anna" and provides one or more of the explanations below from the second text, "Just Say 'No' to Cow's Milk!" OR mentions that the first text "The Nutritional Value of Milk: *Countless Benefits!*" is biased or trying to sell its products.
  - 1. Milk may not be as good for you according to new research.
  - 2. Milk may lead to weaker bones/more bone fractures.
  - 3. Milk may cause more heart disease/cancer.
  - 4. The article provides support from the Physicians Committee for Responsible Medicine (PCRM).
  - 5. The article talks about growing proof that milk isn't as good for people as originally thought.
  - 6. A study in Sweden showed that people who drank milk had more heart disease AND/OR cancer AND/OR bone fractures.
  - 7. The "Nutritional Value of Milk: *Countless Benefits!*" (can refer to the article as the first text) or Farm to Market Dairy is a biased source/is trying to sell its products and the claims can't be trusted.
    - [Anna] They did a study in Sweden that showed that women who drank milk had more broken bones. *[Explanation 6]*
    - [Anna] That first one is just trying to sell us their milk, so you can't really trust them. [*Explanation 7*]

OR: Selects "Sam" and provides an explanation that refers to the content or limitations of the texts to support the stance that a conclusion cannot be reached at this time. Responses include one of the following explanations:

- 1. The "Just Say 'No" to Cow's Milk!" article/the second text points out that more studies are needed to confirm the research findings.
- 2. Milk has been consumed regularly for a long time and the studies mentioned in the second article are new, so more time or research is needed to draw a conclusion.
- 3. These are only two texts and more research is needed before a conclusion can be made.
- 4. It would be good to verify the information found in each article before making a conclusion.
- 5. The two texts contradict one another, so a conclusion cannot be drawn OR provides a specific example of how they contradict one another (one text says milk creates strong bones and the other one says it causes more fractures).
  - [Sam] Just Say No says that more studies are needed before we will really know. [Explanation 1]
  - [Sam] I need to make sure that what each article says is true before I can decide. [Explanation 4]

# Untested Unit: The Galapagos Islands

#### The Galapagos Islands Scenario

PISA 2018	?							
The Galapagos Islands Introduction								
Read the Introduction below. Then click on the NEXT arrow.								
You are taking an online course in website design that focuses on informational websites. Part of the work in the course is to review the websites of other students and provide feedback based on the content and structure of the pages. Your current assignment is to review a website created by some classmates, Alejandru and Cristina. They are from Ecuador and have worked on a website about the Galapagos Islands. They have written a message to you about their website:	Ö							
To the Reviewers: For our project, we decided to design a website for a new organization: the Galapagos Conservation Society. The members of the society are scientists and citizens of Ecuador who are worried about the future of the Galapagos ecosystem. We have not finished all the pages, but we appreciate your review and any feedback you can give us on the pages we have created so far. We would like you to answer some questions to make sure that the pages have enough content.								
You decide to review all the pages of the website. Click on the NEXT arrow to read the first source.								

In this unit's scenario, the student is participating in an online website design course where classmates review each other's websites. The student is asked to review a website produced by some classmates and answer questions to help them determine whether there is enough content in the existing pages. The website that the student is to review is about a fictional organization called the Galapagos Conservation Society and covers information about the Galapagos Islands off the coast of Ecuador. The situation is classified as educational. The text in this unit consists of four webpages for the site ("About"; "Animals"; "Conservation"; and "Volunteer"). The text is classified as: multiple; dynamic; mixed; and expository.

This unit was designed to fully address the digital aspects of reading literacy discussed in the Reading Literacy framework. The text consists of a simulated website with four webpages. It was designed to have the navigational elements typical of a standard website with navigational tabs at the top of the page, each labeled with a title to link the tab with the content of the page. In order to complete each item, the student must search among the four webpages to find the answers to the questions. Some items direct the student explicitly to the page where the information is to be found while other items do

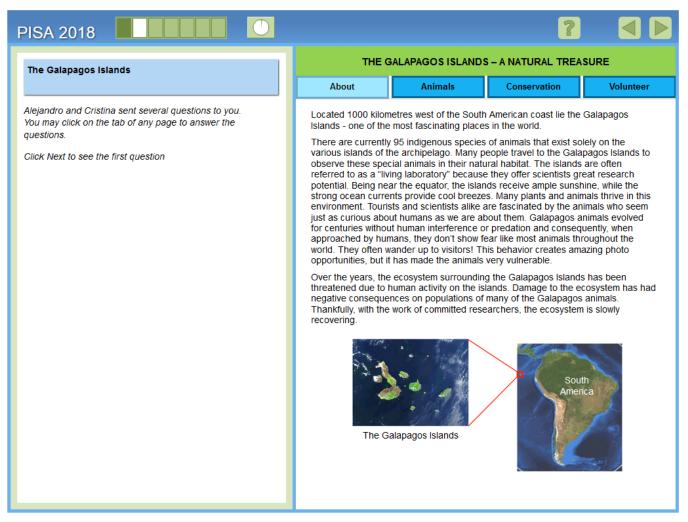
PISA 2018 Released FT and MS Reading Literacy Items

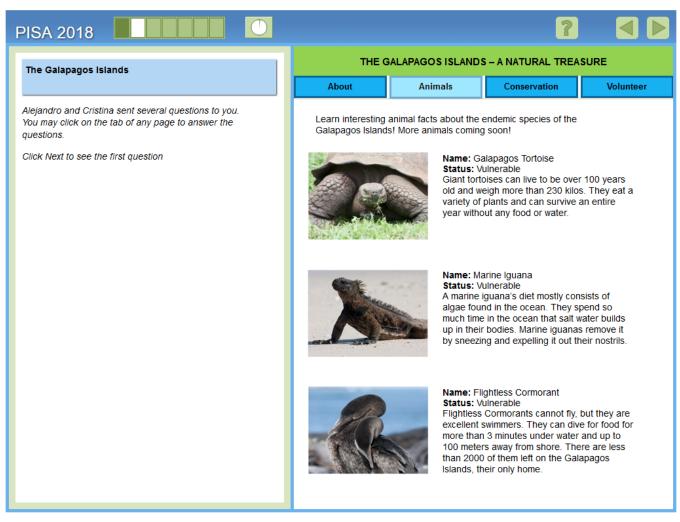
not. Items that do not direct the student to a specific page all share a core cognitive process of search and select the relevant text. Some items only require the students to search for and select the relevant text to locate a specific piece of information that is a direct match with the question stem or one of the response options. Other items require the student to search for and select the relevant text but then go beyond this cognitive process to engage more deeply with the text. The released items below demonstrate this range of depth of text engagement.

Below, each webpage of the website is presented to show the content presented in the entire stimulus. The student begins the unit with the "About" webpage visible. This webpage introduces the islands and describes how and why the animals that inhabit the islands are unique. The webpage also describes how the islands' ecosystems have been threatened. The second webpage provides brief descriptions of three animals that are endemic to the islands. The student navigates to this stimulus by clicking on the tab labeled "Animals". The third webpage is titled "Conservation" and describes two programmes that have been successful in restoring the Galapagos Tortoise population. The final webpage is titled "Volunteer". This webpage is "under construction" and does not contain information.

This unit was not programmed because the Reading Expert Group chose to exclude it from the Field Trial. If it had been programmed, the student would have started each new item with the "About" webpage on the right side of the screen. Even if the student had ended the previous item while viewing a different webpage, the "About" webpage would have been presented for the new item. This standardized each item across all students.

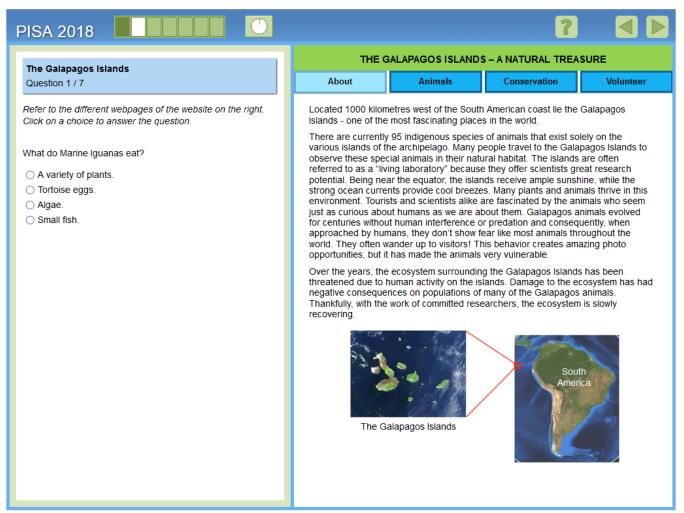
Please note that the graphics for this unit were designed by Test Developers so that members of the PISA team in each country could get an idea of how the unit would "look and feel". The other released units ("Chicken Forum" and "Cow's Milk") went through a formal design and programming process. Additionally, the French Source was not developed for this unit. The process of creating the French version improves the linguistic clarity of the English version of the unit. However, because the French version of this unit was not developed, the English version presented here did not go through that linguistic refinement.





The Galapagos Islands		THE GALAPAGOS ISLANDS – A NATURAL TREASURE					
		About	Animals	Conservation	Volunteer		
Nejandro and Cristina sent several questions to you. You may click on the tab of any page to answer the ruestions.				nservation programs tal o read about new succe			
Click Next to see the first question		By 1965, the giant to species had become introduced invasive is tortoises. It had become response, conservat tortoises from extinct them to a facility whe predators. Once the were released back they can be monitore conservation has be	e extinct. Humans who v species such as rats th ome impossible for tortd tionists launched a brea tion. They began by ca ere they could lay their young tortoises were la to their native island. N ed as they aged in theii en critical for maintaini I the giant tortoises car	severely declined and s visited and settled the is at preyed on tortoise eq bises to reach maturity i eding program to save t pturing adult tortoises a eggs safely away from r arge enough to defend umbers were painted or r natural environment. T ng and improving curren n reproduce without the	lands had ggs and young n the wild. In the rest of the and transporting rats and other themselves, they n their shells so This type of nt tortoise		
		breeding population invasive black rats m The only way forward to safely hatch and s	alized a second approa of giant tortoises on Pi nade it impossible for to d was to eradicate the survive their most vulne	ch was necessary to full inzón Island. A massive irtoises to reach maturit rats. Otherwise, no torto erable years in their nati	population of ty on the island. bises would be ab ive home.		
		Helicopters dropped attractive to rats, but Island was declared discovered in Decen on the island that ha	over 20 tonnes of pois t not to the native spec rat-free. Additional pro nber, 2014. A team of s d been born in the wild tortoise population on f	aunched in 2012 on the on. The poison was dee ies that also live there. 3 of of the program's succ cientists found young to !! This is an encouragin Pinzón Island may be at	signed to be Soon after, Pinzó cess was ortoise hatchlings g finding that		

PISA 2018					?		
The Galapagos Islands		THE GALAPAGOS ISLANDS – A NATURAL TREASURE					
		About		Animals	Conservation	Volunteer	
Alejandro and Cristina sent several questions to you. You may click on the tab of any page to answer the questions. Click Next to see the first question		This page is under o	de	onstruction. escriptions of voluntee	Conservation er opportunities and a s		



In this item, the answer is not located on the "About" webpage, so the student must search through the different webpages to find the answer. By providing the correct answer, the student demonstrates that he or she has selected the relevant text ("Animals"). Once the correct text has been located, a simple match is made between the content within the section on the Marine Iguana and the options in the stimulus. Thus, while this item encourages engagement with the different webpages, it does not require a deep level of engagement with the relevant text. Here, the answer is (C) Algae.

Item Number	CR571Q13		
Cognitive Process	Search for and select relevant text		
Response Format	Simple multiple choice		
Source Requirement for Item	Multiple		

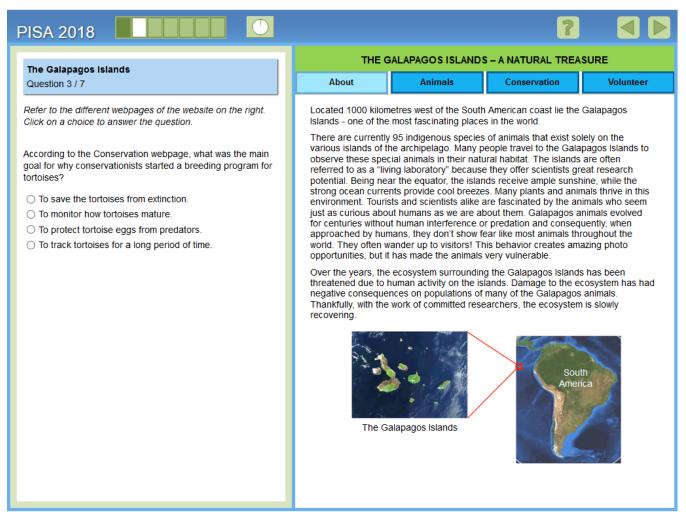
The Galapagos Islands	THE GALAPAGOS ISLANDS – A NATURAL TREASURE				
Question 2 / 7	About	Animals	Conservation	Volunteer	
Refer to the different webpages of the website on the right. Type your answer to the question.		etres west of the South most fascinating place	h American coast lie the es in the world.	Galapagos	
On what island have scientists succeeded in restoring a preeding population of giant tortoises?	various islands of the observe these spect referred to as a "liv potential. Being near strong ocean curre environment. Touris just as curious about for centuries withou approached by hun world. They often w opportunities, but it Over the years, the threatened due to b negative conseque	he archipelago. Many p ial animals in their nati ing laboratory" becaus ar the equator, the islai ints provide cool breeze that and scientists alike ut human interference of hans, they don't show f ander up to visitors! TI has made the animals ecosystem surroundin numan activity on the is nces on populations of	s of animals that exist so beople travel to the Gala ural habitat. The islands e they offer scientists gru- nds receive ample sunsh es. Many plants and anin are fascinated by the an bout them. Galapagos ai or predation and consequies ar like most animals thr his behavior creates ama very vulnerable. In the Galapagos Islands islands. Damage to the ec- imany of the Galapagos earchers, the ecosystem	pagos Islands to are often eat research ine, while the nals thrive in this imals who seem nimals evolved uently, when oughout the azing photo	
	recovering.	alapagos Islands	Sout	1	

This item is similar to the Released Item #1 in that the student is not given information about where the answer to the question is located. Thus, the student must search among the four webpages and select the relevant text ("Conservation"). Here, the student must provide the answer in their own words, and the coding guide for the item can be found below.

Item Number	CR571Q14
Cognitive Process	Search for and select relevant text
Response Format	Open response – human coded
Source Requirement for Item	Multiple

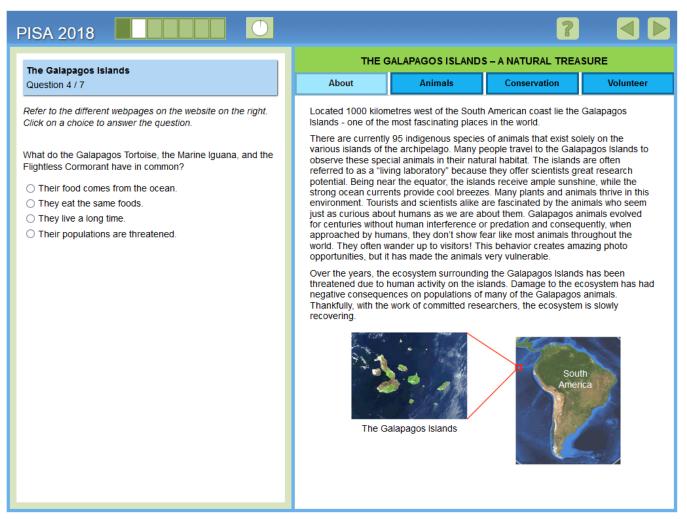
#### Full Credit

Code 1: Pinzón Island or Pinzón



This item is a good contrast to the previous two items. In the two previous items in this unit, the item did not explicitly identify the relevant text for the student. Thus, searching for the relevant text was required to complete the item accurately. Here, the item explicitly refers to the "Conservation" webpage. This should be a strong signal to the student that they need to navigate to the "Conservation" webpage to find the answer. Once students are on the correct webpage, they need to match the information in the question stem (started a breeding program for tortoises) and the webpage (launched a breeding program). Option A is also a very close match with what is in the webpage (...to save the rest of the tortoises from extinction). The correct answer is (A) To save the tortoises from extinction. By contrasting this item and the previous two items, one can see the difference between the two cognitive processes of access and retrieve information within a text, and search for and select relevant text.

Item Number	CR571Q08
Cognitive Process	Access and retrieve information within a text
Response Format	Simple multiple choice
Source Requirement for Item	Single



For this item, the student begins the task by searching for the relevant text to locate the webpage that discusses animals of the Galapagos Islands. If the student has successfully navigated to the "Animals" webpage in the first item, then he or she will likely know where to go to complete this item. However, because the unit would always revert to the "About" webpage had it been programmed, this item would have had, at its core, the cognitive process of searching for and selecting relevant text. Unlike the previous items, this item requires the student to engage more deeply with the information in the webpage. Once the student has navigated to the correct webpage, it is necessary to integrate information across all three descriptions to correctly identify the commonality among the three animals. Because this commonality is not explicitly stated in the webpage and requires integration, this is an "integrate and generate inference" item. Here, the answer is (D) Their populations are threatened.

Item Number	CR571Q06
Cognitive Process	Integrate and generate inferences
Response Format	Simple multiple choice
Source Requirement for Item	Multiple

he Galapagos Islands	IIIE G	GALAPAGOS ISLAND	S – A NATURAL TREA	THE GALAPAGOS ISLANDS – A NATURAL TREASURE				
uestion 5 / 7	About	Animals	Conservation	Volunteer				
uestion 5 / 7 efer to the different webpages on the website on the right. pe your answer to the question. We Conservation webpage cites two examples of programs at were undertaken to protect the giant tortoises. that is the key difference in the approach taken between ese two conservation programs?	Located 1000 kilom Islands - one of the There are currently various islands of th observe these spec referred to as a "livi potential. Being nea strong ocean currer environment. Touris just as curious abou for centuries withou world. They often w opportunities, but it Over the years, the threatened due to th negative consequent Thankfully, with the recovering.	netres west of the South most fascinating place y 95 indigenous species he archipelago. Many p cial animals in their natu- ing laboratory" because ar the equator, the islar nts provide cool breeze sts and scientists alike a ut human interference of nans, they don't show fr yander up to visitors! Th t has made the animals e ecosystem surroundin numan activity on the is nces on populations of	American coast lie the s in the world. s of animals that exist so beople travel to the Gala ural habitat. The islands e they offer scientists gr nds receive ample sunsi s. Many plants and anir are fascinated by the ar bout them. Galapagos a or predation and conseq ear like most animals th his behavior creates am	Galapagos lely on the pagos Islands to are often eat research nine, while the mals thrive in this imals who seem nimals evolved uently, when roughout the azing photo s has been cosystem has had animals. h is slowly				

In contrast to the previous item, the question stem indicates to which webpage the student must navigate in order to find the answer to the question. However, this item shares similarities with the previous item in that it requires the student to integrate information across one webpage and understand information that is not explicitly stated in the webpage. Thus, this is an "integrate and generate inference" item. It is an open response – human coded item, and the draft coding guide for the item is presented below.

Item Number	CR571Q07
Cognitive Process	Integrate and generate inferences
Response Format	Open response – human coded
Source Requirement for Item	Single

#### Full Credit

Code 1: Responses indicate that one program focused on the breeding of native species while the other program focused on the eradication of invasive species.

The Galapagos Islands	THE GALAPAGOS ISLANDS – A NATURAL TREASURE				
Question 6 / 7	About	Animals	Conservation	Volunteer	
Refer to the different webpages on the website on the right. Type your answer to answer the question.		netres west of the Sout most fascinating place	h American coast lie the es in the world.	Galapagos	
The "Animals" and "Conservation" pages present facts and letails about animals and conservation efforts in the salapagos Islands. Why does the Galapagos Preservation society focus on this information on the two pages?	various islands of the observe these spect referred to as a "liv potential. Being near strong ocean curre environment. Touris just as curious abo for centuries withou approached by hur world. They often w opportunities, but it Over the years, the	he archipelago. Many clal animals in their nat ing laboratory" becaus ar the equator, the isla nts provide cool breez sts and scientists alike ut human sa we are a ut human interference nans, they don't show vander up to visitors! T t has made the animals e ecosystem surroundii	s of animals that exist sol people travel to the Gala, tural habitat. The islands be they offer scientists greends nds receive ample sunsh es. Many plants and anin are fascinated by the an about them. Galapagos and or predation and consequifear like most animals thr his behavior creates ama s very vulnerable. Ing the Galapagos Islands slands. Damage to the edition of the solution	pagos Islands to are often eat research ine, while the nais thrive in this imals who seem nimals evolved uently, when oughout the azing photo s has been	
	negative conseque	nces on populations o	f many of the Galapagos earchers, the ecosystem	animals.	
	The G	alapagos Islands	Sout	A PARTY OF THE PAR	

This item explicitly tells the student to consider the information presented on two specific webpages, which limits the amount of searching a student needs to do in order to complete the item. To correctly answer this item, the student must understand the content of both webpages with respect to how each discusses the animals and conservation efforts on the islands. The student must go beyond understanding the content and reflect on the way its presentation shapes its purpose.

This item represents how the cognitive processes in the Reading Literacy assessment can build upon one another. First, the student must understand the literal meaning of sentences and paragraphs in the webpage. Then the student has to integrate the information within each webpage as well as across both webpages. Finally, the student must think about how the content is presented to consider a purpose for which the texts may be used. The draft coding guide for this item is presented below.

Item Number	CR571Q11
Cognitive Process	Reflect on content and form
Response Format	Open response – human coded
Source Requirement for Item	Multiple

#### Full Credit

Code 1: Responses indicate that the society uses the facts and details to encourage people to support programs to save the animals and the islands.

The Galapagos Islands			THE G	GALAPAGOS ISLAND	S – A NATURAL TREA	SURE
Question 7 / 7			About	Animals	Conservation	Volun
Refer to the different webpages on the website o Click on the choices in the table to answer the qu				netres west of the South most fascinating place	h American coast lie the es in the world.	Galapagos
fter reviewing the pages, you decide to send a l uggestions to Alejandro and Cristina about how he credibility of the website. Which of the change he table below make the website more credible f ho want to learn about the islands and the Gala conservation Society? Click on either <b>Yes</b> or <b>No</b> tatement in the table below.	to imp es liste or peo pagos	d in ple	observe these spec referred to as a "liv potential. Being nea strong ocean curre environment. Touris just as curious abou for centuries withou approached by hun	cial animals in their nat ing laboratory" becaus ar the equator, the islaints provide cool breeze sts and scientists alike ut humans as we are a th thuman interference of nans, they don't show to	people travel to the Gala ural habitat. The islands the they offer scientists gr nds receive ample sunsh es. Many plants and anin are fascinated by the an bout them. Galapagos a propredation and consequifear like most animals the his behavior creates ama	are often eat research nine, while the nals thrive in imals who se nimals evolve uently, when roughout the
Does this change improve the credibility of the website?	Yes	No		has made the animals	very vulnerable.	bao baan
Provide testimonials from tourists who have visited the Galapagos Islands.	0	0	threatened due to h negative conseque	numan activity on the is nces on populations of	slands. Damage to the ed f many of the Galapagos earchers, the ecosystem	cosystem has animals.
Include more sub-headings.	0	0	recovering.			i lo olo ling
Cite authoritative sources.	0	0	and a set		4Cord	
Include a description of the Galapagos Conservation Society and its mission.	0	0	27.2	2	Sout	th
			The Gi	alapagos Islands	Ameri	

For the final item in the unit, the student must consider the content of the full website and how it could be improved to present the information in a more credible way for future readers whose purpose is to find out more about the islands and the Galapagos Conservation Society. This item relies on knowledge of what makes a source more credible.

The first statement describes a way to promote tourism to the islands but does not address aspects of credibility with respect to learning more about the islands and the conservation society. The correct answer is No. The second statement addresses a way in which the content could be organized in order to improve the *readability* of the website but not the *credibility*. The correct answer is No. The third statement is a clear way to make a website or text more credible. The correct answer is Yes. Finally, the fourth statement could improve the quality and credibility of the website because a clearly-stated description of the society and its mission might allow readers to better contextualize the content within the pages. Readers would know that the society's goal is rooted in science and aims to preserve the islands' ecosystem. Without this knowledge, readers are less aware of who the author is and whether or not there is inherent bias in the information presented. The correct answer is Yes.

Item Number	CR571Q12
Cognitive Process	Assess quality and credibility
Response Format	Complex multiple choice
Source Requirement for Item	Multiple

# **Reading Fluency**

In PISA 2018, the Reading Expert Group recommended the inclusion of a measure of reading fluency to better assess and understand the reading skills of students in the lower proficiency levels. PISA defines reading fluency as the ease and efficiency with which one can read and understand a piece of text. Reading fluently requires that one can recognize words within a text accurately and automatically and can then parse and process the words into a coherent whole in order to comprehend the overall meaning of the text. When these processes are done efficiently, students' cognitive resources are available for higher-level comprehension tasks, allowing students to engage with texts more deeply.

In the PISA 2018 assessment of reading fluency, students were given three minutes to evaluate the sensibility of as many sentences as they could (i.e. Does the sentence make sense – Yes or No). The number of sentences was restricted to approximately 22 sentences per student so that most students would be able to complete the task within the three minutes. Students were not cut off in the middle of an item or notified that they did not complete all the sentences. Instead, if a student reached the three minutes while viewing a sentence, the task ended after they completed that sentence's sensibility judgment. This was done so that students would maintain motivation for the remaining sections of the PISA assessment.

Items in this task are the easiest items within the Reading Literacy assessment in PISA 2018. Difficulty information is not provided in this report for the practice items because data for these items was not analyzed. However, in the reading fluency assessment, the items fell into proficiency Level 1c and Level 1b. One item was in Level 1a. Items that did not make sense and required a "No" response were more difficult than items that made sense and required a "Yes" response.

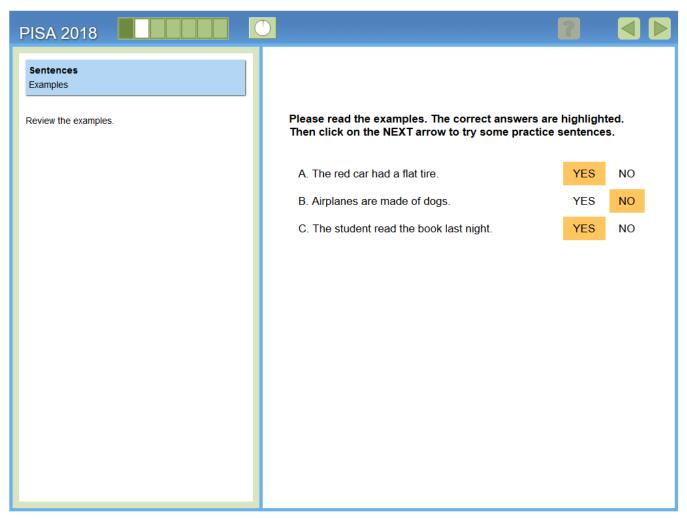
Below, the introduction to and practice items for the reading fluency task are provided along with an explanation for how the students were oriented to the task.

# **Reading Fluency:** *Introduction*

PISA 2018	?	
Sentences		
Read the Introduction. Then click on the NEXT arrow.		
In this test, you will read some sentences and decide if they make sense or not. Click <b>YES</b> if the sentence makes sense. Click <b>NO</b> if the sentence does not make sense. The next sentence will appear as soon as you respond. Click on the NEXT arrow to see some examples.		

In this introduction, students are given the basic instructions for what they will do in the fluency task. Students are notified that the next sentence will appear as soon as they respond so that they are prepared for this style of presentation.

### **Reading Fluency: Static Examples**



Students are given a set of static examples so that the sensibility judgments are understood prior to interacting with dynamic practice items. Here, three example sentences are provided, two which make sense (a Yes response is correct) and one that does not make sense (a No response is correct).

#### Reading Fluency: Dynamic Practice

The next three images show three dynamic practice items. Students complete these dynamic practice items prior to receiving the first fluency item so that they understand the response mode for the item. For each example, as soon as the student clicks on "Yes" or "No", the next item appears.

#### Reading Fluency: Dynamic Practice Item 1

PISA 2018	
Sentences Practice	
Please read the sentence. Click <b>YES</b> if the sentence makes sense, or click <b>NO</b> if the sentence does not make sense.	
	Six birds flew over the trees.
	YES NO

Here, the correct answer is "Yes".

# Reading Fluency: Dynamic Practice Item 2

PISA 2018			
Sentences Practice			
Please read the sentence. Click <b>YES</b> if the sentence makes sense, or click <b>NO</b> if the sentence does not make sense.			
	The window sang the song lo	udly.	
	YES NO		

Here, the correct answer is "No".

# Reading Fluency: Dynamic Practice Item 3

PISA 2018		
Sentences Practice		
Please read the sentence. Click <b>YES</b> if the sentence makes sense, or click <b>NO</b> if the sentence does not make sense.		
	The man drove the car to the store.	
	YES NO	

Here, the correct answer is "Yes".

## Reading Fluency: End of Practice

PISA 2018	2	
Sentences		
Read the information below. Then click on the NEXT arrow.		
You have completed the practice sentences. You will have three minutes to read and respond to as many sentences as you can.		
Click on the NEXT arrow to begin the test.		

Students are told that they have completed the practice sentences. They are also given the time limit for the task, three minutes, and they are told to complete as many sentences as they can within the time limit. Once the student clicks on the NEXT arrow, the task begins and is carried out in the same way as the dynamic practice items. Once students have completed the task, they are notified that the first section of the test is complete and the answers have been saved.

<sup>&</sup>lt;sup>i</sup> The "Chicken Forum" unit describes a person who is seeking information about how to help an injured chicken. Although the information presented in the unit is accurate and medically-sound, some objections were raised regarding the propriety of recommending any pharmaceutical solution to a health problem within the context of the PISA assessment.

The "Cow's Milk" unit contains a stimulus from a milk producer that touts milk's ability to help its drinkers lose weight. Some objections were raised with respect to this claim and its focus on body image, even though the unit itself drew attention to the biased nature of the stimulus.