



PISA --2018

Released Field Trial

Reading Items

CHICKEN FORUM--INTRODUCTION

You are visiting your relatives who moved to a farm to raise chickens. You ask your aunt, "How did you learn 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 my hens hurt her leg. I'll show you the conversation I had."

Chicken Forum Released Item #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.

Chicken Forum Released Item #1

PISA

Question 1 / 7

Refer to the Chicken Health Forum on the right. Click on a choice to answer the question.

What does Ivana_88 want to know?

- ☐ If she can give aspirin to an injured hen.
- ☐ How often she can give aspirin to an injured hen.
- ☐ How to contact a veterinarian about an injured hen.
- ☐ If she can determine the pain level of an injured hen.

www.chickenhealth.com/forum/aspirin-chickens

Chicken Health

Your online resource for healthy chickens

About Forum Pictures

Giving Aspirin to Chickens

Ivana_88 THREAD STARTER Posted 28 October 18:12

Hello everyone!
Is it okay to give aspirin to my hen? She is 2 years old and I think she hurt her leg. I can't get to the veterinarian until Monday, and the vet isn't answering the phone. My hen seems to be in a lot of pain. I'd like to give her something to make her feel better until I can go to the vet. Thank you for your help.

NellieB79 Posted 28 October 18:36

I don't know if aspirin is safe for hens or not. I always check with my vet before giving my birds medicine. I know that some drugs that are safe for humans can be very dangerous for birds.

Monie Posted 28 October 18:52

I gave an aspirin to one of my hens when she was hurt. There was no problem. The next day I went to the vet but she was already better. I think it might be dangerous if you give too much, so don't exceed the dose limits! I hope she feels better!

Avian_Deals Posted 28 October 19:07

Hi! Don't forget to check out my super low deals on all bird supplies. I'm having a great sale right now!

Bob Posted 28 October 19:15

Can someone please tell me how to know if a chicken is sick? Thanks.

Frank Posted 28 October 19:21

Hello Ivana,
I am a veterinarian, specializing in birds. It is okay to give injured chickens aspirin if they are showing signs that they are in pain. When prescribing aspirin to birds, I follow the guidelines published in Clinical Avian Medicine. Chickens should receive 5mg of aspirin per kg of body weight. You can give this 3-4 times per day until you can see your veterinarian. It is very important to follow up with your vet. Good luck!

Chicken Forum Released Item #1

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.

Text Format		Transactional	
Cognitive Process		Represent literal meaning	
Response Format		Simple Multiple Choice	
Estimated Level		1a	

Chicken Forum Released Item #2

PISA

Chicken Forum

Question 2 / 7

Refer to the Chicken Health Forum on the right. Click on a choice to answer the question.

Why does Ivana_88 decide to post her question on an Internet forum?

- ☐ Because she doesn't know how to find a veterinarian.
- ☐ Because she thinks the hen's problem isn't serious.
- ☐ Because she wants to help her hen as soon as possible.
- ☐ Because she cannot afford to go to the veterinarian.

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Posted 28 October 18:36

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Frank

Posted 28 October 19:21

Hello Ivana,
I am a veterinarian specializing in birds. It is okay to give injured chickens aspirin if they

Chicken Forum Released Item #2

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.

Text Format	Transactional
Cognitive Process	Integrate and generate inferences
Response Format	Simple Multiple Choice – Computer Scored
Estimated Level	1a

Chicken Forum Released Item #3

PISA

Chicken Forum

Question 3 / 7

Refer to the Chicken Health Forum on the right. Click on the choices in the table to answer the question.

Some posts on a forum can be relevant to the topic while some posts are not. Click on either **Yes** or **No** to indicate whether the posts in the table below are relevant to Ivana_88's problem.

Is the post relevant to Ivana_88's problem?	Yes	No
NellieB79's post	<input type="radio"/>	<input type="radio"/>
Monie's post	<input type="radio"/>	<input type="radio"/>
Avian_Deals' post	<input type="radio"/>	<input type="radio"/>
Bob's post	<input type="radio"/>	<input type="radio"/>
Frank's post	<input type="radio"/>	<input type="radio"/>

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Ivana_88

THREAD STARTER

Posted 28 October 18:12

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NellieB79

Posted 28 October 18:36

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Monie

Posted 28 October 18:52

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Bob

Posted 28 October 19:15

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Frank

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Hello Ivana,

I am a veterinarian, specializing in birds. It is okay to give injured chickens aspirin if they

Chicken Forum Released Item #3

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.

Text Format	Transactional
Cognitive Process	Reflect on content and form
Response Format	Complex Multiple Choice
Estimated Level	2

Chicken Forum Released Item #4

PISA

Question 4 / 7

Refer to the Chicken Health Forum on the right. Click on a choice to answer the question.

Who has had positive experiences giving aspirin to an injured hen?

- ☐ Ivana_88
- ☐ NellieB79
- ☐ Monie
- ☐ Bob

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Ivana_88 THREAD STARTER Posted 28 October 18:12

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NellieB79 Posted 28 October 18:36

I don't know if aspirin is safe for hens or not. I always check with my vet before giving my birds medicine. I know that some drugs that are safe for humans can be very dangerous for birds.

Monie Posted 28 October 18:52

I gave an aspirin to one of my hens when she was hurt. There was no problem. The next day I went to the vet but she was already better. I think it might be dangerous if you give too much, so don't exceed the dose limits! I hope she feels better!

Avian_Deals Posted 28 October 19:07

Hi! Don't forget to check out my super low deals on all bird supplies. I'm having a great sale right now!

Bob Posted 28 October 19:15

Can someone please tell me how to know if a chicken is sick? Thanks.

Frank Posted 28 October 19:21

Hello Ivana,
I am a veterinarian specializing in birds. It is okay to give injured chickens aspirin if they

Chicken Forum Released Item #4

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**.

Text Format	Transactional
Cognitive Process	Represent literal meaning
Response Format	Simple Multiple Choice
Estimated Level	1a

Chicken Forum Released Item #5

PISA



Chicken Forum

Question 5 / 7

Refer to the Chicken Health Forum on the right. Click on a choice to answer the question.

Why does Avian_Deals respond to Ivana_88's post?

- ☐ To promote a business.
- ☐ To answer Ivana_88's question.
- ☐ To add to Monie's advice.
- ☐ To demonstrate expertise with birds.

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Ivana_88 THREAD STARTER

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NellieB79

Posted 28 October 18:36

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Monie

Posted 28 October 18:52

I gave an aspirin to one of my hens when she was hurt. There was no problem. The next day I went to the vet but she was already better. I think it might be dangerous if you give too much, so don't exceed the dose limits! I hope she feels better!



Avian_Deals

Posted 28 October 19:07

Hi! Don't forget to check out my super low deals on all bird supplies. I'm having a great sale right now!



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Frank

Posted 28 October 19:21

Hello Ivana,

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Chicken Forum Released Item #5

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.**

Text Format	Transactional
Cognitive Process	Integrate and generate inferences
Response Format	Simple Multiple Choice
Estimated Level	1a

Chicken Forum Released Item #6

PISA



Chicken Forum

Question 6 / 7

Refer to the Chicken Health Forum on the right. Click on a choice and then type an explanation to answer the question.

Who posted the most reliable answer to Ivana_88's question?

- ☐ NellieB79
- ☐ Monie
- ☐ Avian_Deals
- ☐ Frank

Give a reason for your answer.

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Frank

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Hello Ivana,

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Chicken Forum Released Item #6

This item asks the student to consider the **elements of quality and credibility** of the posts by NellieB79, Monie, Avian_Deals and Frank. 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**. 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.**

Text Format	Transactional
Cognitive Process	Assess quality and credibility
Response Format	Open Response
Estimated 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.

Chicken Forum Released Item #7

PISA



Chicken Forum

Question 7 / 7

Refer to the Chicken Health Forum on the right. Type your answer to the question.

Why can't Frank give Ivana_88 the exact amount of aspirin for her hen?

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Ivana_88 THREAD STARTER

Posted 28 October 18:12

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NellieB79

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Frank

Posted 28 October 19:21

Hello Ivana,

I am a veterinarian, specializing in birds. It is okay to give injured chickens aspirin if they

Chicken Forum Released Item #7

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**. This item was coded with **high reliability** in the Field Trial.

Text Format	Transactional
Cognitive Process	Integrate and generate inferences across multiple sources
Response Format	Open Response – Human
Estimated Level	2



Full Credit

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.



Cow's Milk

INTRODUCTION

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.

Cow's Milk

Scenario

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.**

Cow's Milk

Scenario

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

PISA



Cow's Milk

Question 1 / 7

Refer to "Farm to Market Dairy" on the right. Click on a choice to answer the question.

According to the IDFA, with which statement do leading health professionals and organizations agree?

- ☐ Consuming milk and milk products leads to obesity.
- ☐ Milk is a good source of essential vitamins and minerals.
- ☐ Milk contains more vitamins than minerals.
- ☐ Drinking milk is a leading cause of osteoporosis.

Farm to Market



www.farmtomarketdairy.com



FARM TO MARKET DAIRY

[About Us](#) [Products](#) [Nutrition](#)

The Nutritional Value of Milk: *Countless Benefits!*

Farm to Market Dairy milk products contain key nutrients: calcium, protein, vitamin D, vitamin B12, riboflavin, and potassium. These vitamins and minerals make *Farm to Market Dairy* milk products an important part of a healthful diet. Consuming *Farm to Market Dairy* milk products every day is a great way to ensure that you get the vitamins and minerals your body needs.

Consuming *Farm to Market Dairy* milk products increases weight loss and helps maintain a healthy weight. Milk increases bone strength and density. It even improves cardiovascular health and helps prevent cancer. One glass of milk is packed with vitamins, minerals, and a wealth of health benefits.

According to Bill Sears, MD, Associate Clinical Professor of Pediatrics at the University of California at Irvine, milk contains many important nutrients in one convenient place. The International Dairy Foods Association (IDFA) supports this idea. In fact, the IDFA suggests that many health professionals and groups would also agree.

Milk contains a complete nutrient package of nine essential nutrients. In addition to being an excellent source of calcium and vitamin D, it is a good source of vitamin A, protein and potassium. Dairy is recommended by doctors. Dairy's role in a healthy diet has long been established by the nutrition and science community. This includes the National Osteoporosis Foundation, the Surgeon General, the National Institutes of Health, the American Medical Association's Council of Scientific Affairs and many other leading health organizations.

International Dairy Foods Association, September 27, 2007

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.

Text Format	Multiple Text
Cognitive Process	Represent literal meaning
Response Format	Simple Multiple Choice – Computer Scored
Estimated Level	1a

Cow's Milk Released Item # 2

PISA

Cow's Milk

Question 2 / 7

Refer to "Farm to Market Dairy" on the right. Click on a choice to answer the question.

What is the main purpose of this text?

- ☐ To argue that milk products increase weight loss.
- ☐ To compare *Farm to Market Dairy* milk products to other dairy products.
- ☐ To inform the public of the risks associated with heart disease.
- ☐ To support the use of *Farm to Market Dairy* products.

Farm to Market

www.farmtomarketdairy.com



FARM TO MARKET DAIRY

About Us Products Nutrition

The Nutritional Value of Milk: *Countless Benefits!*

Farm to Market Dairy milk products contain key nutrients: calcium, protein, vitamin D, vitamin B12, riboflavin, and potassium. These vitamins and minerals make *Farm to Market Dairy* milk products an important part of a healthful diet. Consuming *Farm to Market Dairy* milk products every day is a great way to ensure that you get the vitamins and minerals your body needs.

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International Dairy Foods Association, September 27, 2007

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.

Text Format	Multiple Text
Cognitive Process	Reflect on content and form
Response Format	Simple Multiple Choice
Estimated Level	2

Cow's Milk Scenario Update

Anna, Christopher and Sam are talking about the decision of the coffee shop owner to stop selling cow's milk. Sam says, "Maybe cow's milk is becoming too expensive." Christopher is looking at his smartphone. "Maybe, 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 explain it."

Anna and Sam open the link Christopher sent and read the article, "Just Say 'No' to Cow's Milk!"

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.

Cow's Milk Released Item #3

PISA

Cow's Milk

Question 3 / 7

Refer to "Just Say No to Cow's Milk!" on the right. Click on the choices in the table to answer the question.

Could the following statements represent Dr. Garza's purpose for writing the article? Click on either **Yes** or **No** for each statement.

Could this statement represent the purpose of the article?	Yes	No
To question the benefit of dairy products on general health.	<input type="radio"/>	<input type="radio"/>
To discuss various research findings about cow's milk.	<input type="radio"/>	<input type="radio"/>
To point out that milk and other dairy products have not been studied.	<input type="radio"/>	<input type="radio"/>

Farm to Market

Just Say No

www.healtharticlestoday.com/milk

HEALTH ARTICLES TODAY

JUST SAY 'NO' TO COW'S MILK!



By Health Reporter, Dr. R. Garza

Cow's milk is a **big** 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 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 *British Medical Journal*. 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:

"Milk proteins, milk sugar, fat, and saturated fat in dairy products pose health risks for children and encourage the development of obesity, diabetes, and heart disease."

These are serious claims and more studies are needed in order to confirm the findings. However, there is mounting proof that drinking cow's milk could be less beneficial to our health than originally thought. If these claims become indisputable facts, it may be time to just say 'no' to cow's milk.

Cow's Milk Released Item #3

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**.

Text Format	Multiple Text
Cognitive Process	Reflect on content and form
Response Format	Complex Multiple Choice
Estimated Level	3

Cow's Milk Released Item #4

PISA



Cow's Milk

Question 4 / 7

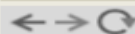
Refer to "Just Say No to Cow's Milk!" on the right. Type your answer to the question.

Dr. Garza presents a few research results which may 'surprise' readers.

State one of them.

Farm to Market

Just Say No



www.healtharticlestoday.com/milk

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Cow's Milk Released Item #4

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” research 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.

Text Format		Multiple Text	
Cognitive Process		Represent literal meaning	
Response Format		Open Response	
Estimated Level		3	

Cow's Milk Released Item #4

Full Credit

Quotes or paraphrases one of the following research results 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.

Cow's Milk Released Item #5

PISA



Cow's Milk

Question 5 / 7

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.

Based on the two texts about milk, are the statements in the table below facts or opinions? Click on either **Fact** or **Opinion** for each statement.

Is the statement a fact or an opinion?	Fact	Opinion
Recent studies on the health benefits of milk are surprising.	<input type="radio"/>	<input type="radio"/>
Studies have shown that drinking milk has detrimental health effects.	<input type="radio"/>	<input type="radio"/>
Several studies have questioned the bone strengthening power of milk.	<input type="radio"/>	<input type="radio"/>
Drinking milk and other dairy products is the best way to lose weight.	<input type="radio"/>	<input type="radio"/>

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Cow's Milk Released Item #5

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.**

Text Format	Multiple Text
Cognitive Process	Integrate and generate inferences across multiple sources
Response Format	Complex Multiple Choice
Estimated Level	5

Cow's Milk Released Item #6

PISA



Cow's Milk

Question 6 / 7

Refer to both sources on the right by clicking on each of the tabs. Click on a choice to answer the question.

The authors of the two texts disagree on the role of milk in a regular diet.

What is the main point the authors disagree on?

- ☐ Milk's effects on health and milk's role in human diets.
- ☐ The number of vitamins and minerals found in milk.
- ☐ The best form of dairy to regularly consume.
- ☐ Which organization is the leading authority on milk.

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SOURCE 1-COW'S MILK

The Nutritional Value of Milk: Countless Benefits!

Farm to Market Dairy milk products contain key nutrients: calcium, protein, vitamin D, vitamin B12, riboflavin, and potassium. These vitamins and minerals make *Farm to Market Dairy* milk products an important part of a healthful diet. Consuming *Farm to Market Dairy* milk products every day is a great way to ensure that you get the vitamins and minerals your body needs.

Consuming *Farm to Market Dairy* milk products increases weight loss and helps maintain a healthy weight. Milk increases bone strength and density. It even improves cardiovascular health and helps prevent cancer. One glass of milk is packed with vitamins, minerals, and a wealth of health benefits.

According to Bill Sears, MD, Associate Clinical Professor of Pediatrics at the University of California at Irvine, milk contains many important nutrients in one convenient place. The International Dairy Foods Association (IDFA) supports this idea. In fact, the IDFA suggests that many health professionals and groups would also agree.

Milk contains a complete nutrient package of nine essential nutrients. In addition to being an excellent source of calcium and vitamin D, it is a good source of vitamin A, protein and potassium. Dairy is recommended by doctors. Dairy's role in a healthy diet has long been established by the nutrition and science community. This includes the National Osteoporosis Foundation, the Surgeon General, the National Institutes of Health, the American Medical Association's Council of Scientific Affairs and many other leading health organizations.

International Dairy Foods Association, September 27, 2007

Cow's Milk Released Item #6

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.**

Text Format		Multiple Text	
Cognitive Process		Detect and handle conflict	
Response Format		Simple Multiple Choice	
Estimated Level		2	

Cow's Milk Released Item # 7

PISA

Cow's Milk

Question 7 / 7

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.

Anna, Christopher and Sam are talking about the two texts.

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?

- ☐ Christopher
- ☐ Anna
- ☐ Sam

Explain your answer. Refer to information from at least one of the texts.

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Cow's Milk Released Item #7

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.

Cow's Milk Released Item #7

Text Format	Multiple Text
Cognitive Process	Detect and handle conflict
Response Format	Open Response – Human Coded
Estimated Level	3

Cow's Milk Released Item #7

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]*

Cow's Milk Released Item #7


Full Credit

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]



MORE TEST ITEMS WERE RELEASED BY PISA IN 2018 WHICH GIVE EXPOSURE TO THE VARIETY OF TYPES OF QUESTIONS THAT CAN BE FRAMED. A COPY OF ALL THESE ITEMS IS BEING PROVIDED IN HARD AS WELL AS SOFT FORM.