Future Food  February 28, 2020

Use this week’s issue of TIME for Kids (Edition 5–6) to answer the questions. For each question, circle the letter next to the best answer.

**1.** What was different about the fried chicken served at the tasting event in March 2017?
A. It tasted like meat but was plant-based.
B. It was grown in a lab.
C. It was higher in protein.
D. It was lower in fat.

**3.** Which of the following is not an environmental effect of meat production?
A. deforestation
B. the release of methane into the atmosphere
C. the release of carbon dioxide into the atmosphere
D. all of the above

**5.** Why does the author include the sidebar “Plant Power”?
A. to list places where the reader can purchase plant-based “meat” products
B. to show support for cheaper alternatives
C. to encourage readers to eat less meat or no meat at all
D. to describe an alternative to meat

**7.** Should the United States allow lab-grown meat to be produced and sold? Use evidence from the text to support your answer.
Scientists grew this beef patty in a lab. Lab-grown meat could be the food of the future. Current meat production methods require large amounts of land and resources and are taking a toll on the environment. Lab-grown meat could be a solution. But first, production costs must come down and the government must pass regulations.

Cover Quiz Answer Key
1. B
2. C
3. C
4. A
5. D
6. B
7. Answers will vary. See page 4.

Identify Main Idea Mini-Lesson (RI.2)
Remind students that the central idea is synonymous with the main idea and that the text includes details that develop the main idea. Students should first study the headline and deck (the bold text under the headline) for clues to the central idea. Are there words that help them predict what the article is about? How about the deck? Could that be a statement of the central idea? Hint: It often is. As they read the article, students should underline supporting details and then ask: “Do these details support the central idea I gathered from the headline and deck?” When they are answering a quiz question that asks what an article or section is mainly about, tell them the key word to remember is mainly. The answer choices might include a detail from the article or section, but students should always ask themselves: “Does this detail represent what the article or section is mainly about?” If they are in doubt, they can always refer back to the article’s headline or the section’s subheading to see if it reflects the detail in question.

Question Distribution by Standard
**Key Ideas and Details**
Read for Detail, Identify Main Idea, Identify Cause and Effect (RI.1, RI.2, RI.3)
• Q1, Q3, Q6

**Craft and Structure**
Analyze Text Structure, Analyze Author’s Purpose (RI.4, RI.5, RI.6)
• Q4, Q5

**Integration of Knowledge and Ideas**
Identify Claims and Evidence (RI.7, RI.8, RI.9)
• Q2

**Writing**
Informative Writing (W.1)
• Q7

Alternate Question Stems
• What is the article (or section) mainly about?
• What might be another good title for the article (or section)?
• How is the [first, second, or third] section important to the story as a whole?
1. Read for Detail (RI.5.1; RI.6.1)
What was different about the fried chicken served at the tasting event in March 2017?
A. It tasted like meat but was plant-based.
B. It was grown in a lab.
C. It was higher in protein.
D. It was lower in fat.

DISTRACTOR ANALYSIS
A. There is no evidence in the article to suggest this.
B. Correct answer: “It had been grown in a lab by scientists.” See paragraph 2.
C. There is no evidence in the article to suggest this.
D. There is no evidence in the article to suggest this.

2. Identify Claims and Evidence (RI.5.8, RI.6.8)
Which detail best supports the case for cellular meat?
A. “Many people think it’s better for the planet than raising animals for food.”
B. “That’s almost 2 billion more people than there are today.”
C. “FAO says people could eat 73% more meat in 2050.”
D. “Traditional meat production also requires lots of cows.”

DISTRACTOR ANALYSIS
A. This is an opinion; it does not provide hard evidence in support of cellular meat.
B. The population increase does support the argument, but it is not the best answer choice because it does not explain why or how.
C. Correct answer: This piece of evidence directly connects to the need for more meat sources.
D. This fact does not explain why “lots of cows” is problematic.

3. Identify Cause and Effect (RI.5.3; RI.6.3)
Which of the following is not an environmental effect of meat production?
A. deforestation
B. the release of methane into the atmosphere
C. the release of carbon dioxide into the atmosphere
D. all of the above

DISTRACTOR ANALYSIS
A. This is an impact of meat production: “Using more land for livestock will lead to deforestation.”
B. This is an impact of meat production: “[C]ows release methane. This gas traps heat in the atmosphere, which contributes to climate change.”
C. Correct answer: This is an environmental impact of cellular meat production, as fossil fuels would be used to power the facilities.
D. A and B are environmental impacts of meat production, so all of the options cannot be true.
4. **Analyze Text Structure (RI.5.5; RI.6.5)**

How is the section “Challenges Ahead” connected to the section “Why Cellular Meat?”

A. It provides the alternate viewpoint.
B. It names a solution to the problem.
C. It tells what events led to the invention.
D. It describes an alternative to meat.

**DISTRACTOR ANALYSIS**

A. Correct answer: All three paragraphs of “Challenges Ahead” detail points of opposition to the argument for cellular meat, like environmental impact, high cost, and safety.
B. “Why Cellular Meat?” addresses problems with current meat production and a solution for the future.
C. “Challenges Ahead” is about looking forward, not back.
D. This is not what “Challenges Ahead” is about.

5. **Analyze Author’s Purpose (RI.5.6, RI.6.6)**

Why does the author include the sidebar “Plant Power”?

A. to list places where the reader can purchase plant-based “meat” products
B. to show support for cheaper alternatives
C. to encourage readers to eat less meat or no meat at all
D. to describe an alternative to meat

**DISTRACTOR ANALYSIS**

A. This information is found here but is not the author’s reason for adding a sidebar.
B. There is no evidence in the sidebar that these products are cheaper than meat.
C. The sidebar doesn’t try to persuade a reader to eat less meat or no meat.
D. Correct answer: Plant-based “meat” products are highlighted in this section.

6. **Identify Main Idea (RI.5.2; RI.6.2)**

Which best states the central idea of the article?

A. The tasting event in California sparked a worldwide debate about meat.
B. There are advantages and disadvantages to lab-grown meat.
C. The process for growing cellular meat is complex and rewarding.
D. There are many scientists and organizations working towards a common goal.

**DISTRACTOR ANALYSIS**

A. There is no evidence in the article to suggest this. While the research spans the globe, it research began before the tasting event.
B. Correct answer: The author describes the benefits and challenges of making cellular meat mainstream.
C. While this might be true, there is little evidence in the article that discusses the actual production processs; this answer choice also does not mention the alternate viewpoint that is detailed in the article.
D. There is evidence to support that there are many people and groups of people working to make cellular meat a daily reality, however, this answer choice does not connect to all information included in the article.
7. Informative Writing (W.5.1; W.6.1)
Should the United States allow lab-grown meat to be produced and sold? Use evidence from the text to support your answer.

Response must contain the following:
• A claim that states an opinion
• At least one reason supporting that claim
• At least one piece of evidence from the article that supports the reason

Open-Ended Grading Rubric

| 4 Exceeds Expectations | ☐ Response effectively answers all parts of the question. |
| ☐ Response is clear and organized into paragraphs. |
| ☐ Response provides a developed explanation and text evidence. |
| 3 Meets Expectations | ☐ Response mostly answers the question and stays on task. |
| ☐ Response is clear and mostly organized. |
| ☐ Response is developed and provides an explanation or relevant evidence. |
| 2 Approaching Expectations | ☐ Response answers part, but not all of, the question or may get off task. |
| ☐ Response is clear but may not be fully organized. |
| ☐ Response may have a partial explanation but no evidence is provided. |
| 1 Below Expectations | ☐ Response is minimally aligned to the task. |
| ☐ Response is somewhat clear but is not organized. |
| ☐ Response has little reasoning or evidence. |
| 0 Far Below Expectations | ☐ Response is not appropriate to the task. |
| ☐ Response is unclear and has no organization. |
| ☐ Response has no reasoning or evidence. |

Teacher’s Comments:

M/C ___/6
OE ___/4
MAGAZINE QUIZ DISTRACTOR GUIDE FOR
FUTURE FOOD

Current meat production methods require large amounts of land and resources and are taking a toll on the environment. Lab-grown meat could be a solution. But first, production costs must come down and the government must pass regulations.

<table>
<thead>
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Question Distribution by Standard

**Key Ideas and Details**
Read for Detail, Make an Inference, Explain Connections, Identify Main Idea, Identify Cause and Effect (RI.1, RI.2, RI.3)
- Q2, Q3, Q7, Q8, Q9

**Craft and Structure**
Define Words and Phrases, Analyze Text Structure, Analyze Author’s Purpose (RI.4, RI.5, RI.6)
- Q5, Q6, Q10

**Integration of Knowledge and Ideas**
Analyze Graphic Features, Identify Claims and Evidence (RI.7, RI.8, RI.9)
- Q1, Q4

**Alternate Question Stems**
- What is the article (or section) mainly about?
- What might be another good title for the article (or section)?
- How is the [first, second, or third] section important to the story as a whole?
1. **ALL-STAR FACE-OFF: Analyze Graphic Features (RI.5.7; RI.6.7)**

   What is the *most likely* reason this photograph was chosen to represent the article?
   
   A. to show how the teams honored Kobe and Gianna Bryant  
   B. to feature a player from the winning team  
   C. to highlight the winner of the dunk contest, another event of the weekend  
   D. to show James making the final basket of the game

**DISTRACTOR ANALYSIS**

   A. The photograph does not feature any of the ways the Bryants were honored at the event.  
   B. Correct answer: The photograph connects to the game’s outcome by showing James scoring.  
   C. There is no evidence in the article to suggest this. The article is about the All-Star Game only.  
   D. There is no evidence in the article to suggest James scored the final basket.

2. **FOR THE RECORD: Make an Inference (RI.5.1; RI.6.1)**

   Based on the information provided, what is Mayor Raggi referring to when she says “treasures”?
   
   A. Roman archaeologists  
   B. a shrine  
   C. Romulus  
   D. all of the above

**DISTRACTOR ANALYSIS**

   A. Archaeologists discovered the shrine; they are not the treasures to which Raggi is referring.  
   B. Correct answer: The newly discovered shrine is what Mayor Raggi was tweeting about.  
   C. The shrine was dedicated to Romulus.  
   D. Answer B is correct.

3. **DATA DEEP DIVE: Explain Connections (RI.5.3; RI.6.3)**

   A similarity between a storm chaser and a pyrotechnician is *most likely* that they
   
   A. work in a lab.  
   B. predict weather conditions.  
   C. attend performances.  
   D. do dangerous work.

**DISTRACTOR ANALYSIS**

   A. There is no evidence in the text to suggest this.  
   B. This is true of storm chasers only.  
   C. This is true of pyrotechnicians only.  
   D. Correct answer: Chasing storms and working with fire are both risky professions.

4. **FUTURE FOOD: Identify Claims and Evidence (RI.5.8; RI.6.8)**

   Which detail *best* supports the case for cellular meat?
   
   A. “Many people think it’s better for the planet than raising animals for food.”  
   B. “That’s almost 2 billion more people than there are today.”  
   C. “FAO says people could eat 73% more meat in 2050.”  
   D. “Traditional meat production also requires lots of cows.”
Distractor Analysis

A. This is an opinion; it does not provide hard evidence in support of cellular meat.
B. The population increase does support the argument, but is not the best answer choice because it does not explain why or how.
C. Correct answer: This piece of evidence directly connects to the need for more meat sources.
D. This fact does not explain why “lots of cows” is problematic.

5. FUTURE FOOD: Analyze Text Structure (RI.5.5; RI.6.5)
How is the section “Challenges Ahead” connected to the section “Why Cellular Meat?”

A. It provides an alternate viewpoint.
B. It names a solution to the problem.
C. It tells what led to the invention.
D. It describes another alternative to regular meat.

Distractor Analysis

A. Correct answer: All three paragraphs of “Challenges Ahead” detail points of opposition to the argument for cellular meat, like environmental impact, high cost, and safety.
C. “Challenges Ahead” is about looking forward, not back.
D. This is not what “Challenges Ahead” is about.

6. CYBER SCHOOL: Define Words and Phrases (RI.5.4; RI.6.4)
What does the word sleuth mean as it is used in the caption?

A. online
B. detective
C. hacker
D. pretend

Distractor Analysis

A. The caption implies they are working online, however, online does not mean sleuth.
B. Correct answer: A sleuth is a detective, someone who carries out an investigation.
C. This is the opposite of the definition. The sleuth in the caption are investigating a hacker.
D. The crime scene in the picture is pretend, but that has nothing to do with the word sleuth.

7. CYBER SCHOOL: Identify Cause and Effect (RI.5.3; RI.6.3)
Why did the NSA start sponsoring cybersecurity camps?

A. to address the high unemployment rate in the United States
B. because the United States Coast Guard facility was recently attacked
C. to train future cybersecurity workers
D. to raise money to fund other cybersecurity initiatives

Distractor Analysis

A. There is no evidence in the article to suggest this.
B. This is true, but this is not the reason why they started the camps.
C. Correct answer: “To address the shortage, the NSA . . . sponsor cybersecurity camps.” See paragraph 4.
D. There is no evidence in the article to suggest this.
8. **YOUTUBE TROUBLE: Identify Main Idea (RI.5.2; RI.6.2)**

“YouTube Trouble” is an appropriate title because this article is mostly about

A. the company going out of business.
B. lower user rates among kids under 13.
C. the risk that the convenience of the Internet poses.
D. trouble over the use of kids’ data.

**DISTRACTOR ANALYSIS**

A. There is no evidence in the article to suggest this.
B. There is no evidence in the article to suggest this.
C. This idea is mentioned in the article, though it is not specific to YouTube and its recent challenges.
D. Correct answer: The article is about YouTube paying a penalty to the FTC and remaining concerns about kids’ data privacy.

9. **CODING HEROES: Read for Detail (RI.5.1; RI.6.1)**

How did the students use coding to create SuperMe?

A. to animate the characters
B. to fund the project
C. to design their own superheroes
D. to create a board game

**DISTRACTOR ANALYSIS**

A. Correct answer: “Then they used coding to animate the characters.”
B. The project was funded by Chance the Rapper and Google.
C. The students drew their own superheroes, then used coding to animate them.
D. SuperMe is a game played on the computer.

10. **MAKING BREAKTHROUGHS: Analyze Author’s Purpose (RI.5.6; RI.6.6)**

Which word best describes the tone of Tonya Bolden’s book?

A. depressing
B. remorseful
C. inspirational
D. cautionary

**DISTRACTOR ANALYSIS**

A. This is the opposite of the book’s intent. It is meant to celebrate.
B. There is no evidence in the article to suggest any feelings of remorse.
C. Correct answer: She wrote the book to “teach readers about the huge variety of STEM-related careers they might pursue.”
D. This is the opposite of the book’s intent. It is meant to be encouraging.