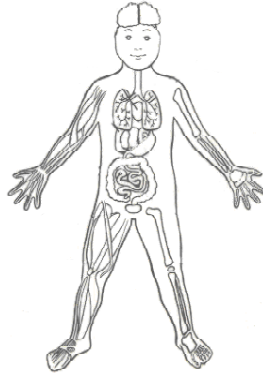


# Summative Assessment #1 for **The Inside Story** **Cells, Organs, and Systems of the Human Body**



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# Summative Assessment #1

## I Am Alive

### Instructions

**Type of Assessment:** Constructed Response, Selected Response

**Duration:** 30 minutes

**Standards Assessed:** SC.F.1.2.4.4.1, SC.F.1.2.4.4.2, LA.A.2.2.1.4.1

**Description of Assessment Activity:** This two-page assessment contains eight multiple-choice questions and one opportunity for a written explanation with accompanying illustration to assess the science standards. A science content paragraph is included with four accompanying questions to assess the language arts standard.

**Teacher Directions:** Distribute the assessments. Instruct students to write their names and date on the papers. Orally, read the instructions to the students. Be sure to read the instructions before questions one, nine, and ten and before the paragraph on page two. Ask for questions. Inform students that they will have 30 minutes to complete and turn in their papers. Be sure review the finished assessments with the students after the assessments have been scored.

**Student Directions:** Write your name and date on the paper. Listen while your teacher reads the instructions. Ask your teacher for an explanation of any instructions you do not understand. Work carefully and proofread when you are finished. Turn in your paper when completed.

#### **Scoring Method and Criteria:**

**Part 1, Science** - The science portion of this assessment (page 1) is scored on a percentage correct with 28 being the total possible points. Each multiple-choice is worth one point. The explanation and illustration are worth ten points each. See the “I Am Alive, Summative Assessment #1, Teacher Key” on page 4 of this document for specific criteria to look for when scoring the explanation and illustration.

**Part 2, Language Arts** - The language arts portion of this assessment (page 2) is scored as the first part of the assessment of standard LA.A.2.2.1.4.1. The second part of this evaluation is integrated in summative assessment #3 for this unit. Between the two assessments of this standard, eight total items will be evaluated and scored on a percentage correct basis. Part 2 of this assessment must be saved and then combined with part 2 of summative assessment #3 for an overall evaluation and score.

Name \_\_\_\_\_

Date \_\_\_\_\_

## I Am Alive Summative Assessment #1

Read each question and fill in the circle by the correct answer.

1. \_\_\_\_\_ are the smallest structures that are alive.
  - A. Membranes
  - B. Cells
  - C. Organs
  - D. Building blocks
2. \_\_\_\_\_ are made of cells.
  - A. Bones
  - B. Animals
  - C. Human organs
  - D. All of the above
3. What must be used to see a cell?
  - A. Eyes
  - B. Organelles
  - C. Microscopes
  - D. We can't see cells.
4. What do cells need to stay alive?
  - A. Food, oxygen
  - B. Cytoplasm, oxygen
  - C. Food, Urea
  - D. Cytoplasm, Urea
5. What are plants made of?
  - A. Seeds
  - B. Cells
  - C. Organs
  - D. Roots
6. What are animals made of?
  - A. Food and energy
  - B. Organs
  - C. Membranes
  - D. Cells
7. Which of these is NOT made of cells?
  - A. Tuna
  - B. Apple
  - C. Eggs
  - D. Soft drink
8. Why do cells get rid of urea?
  - A. The cells get too full.
  - B. Urea is waste that the cell can't use.
  - C. Urea is in the cytoplasm.
  - D. The organelles would die.
9. Write an explanation of how cells work to keep our bodies alive. Be sure to tell everything you have learned. If more space is needed, turn your paper over and continue on the back. (10 points)
10. On the back of this paper, illustrate the explanation you wrote above. (10 points)

Read the paragraph, and then answer the questions below.

### Wanted, Dead or Alive

Like all mammals, humans have hair on parts of their bodies. Hair is different from most parts of our bodies because part of our hair is alive and part of our hair is dead. Hair roots are alive. Each hair grows in its own tiny sack called a follicle. At the bottom of the follicle is the root of one hair. As the cells of the root divide, the hair grows longer. As the hair grows, it moves away from the blood supply that brings food and oxygen to the cells. Only the roots remain in contact with the blood. The hair cells that are no longer connected to the blood supply die. A haircut doesn't hurt because the hair being cut is dead.

11. What is the main idea of this paragraph? \_\_\_\_\_

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12. Since we know that a hair cut doesn't hurt because the hair cells are dead, it is implied that it doesn't hurt to cut our fingernails because \_\_\_\_\_.

13. One fact from the paragraph states, "Hair roots are alive." Copy one detail sentence from the paragraph that supports this fact. \_\_\_\_\_

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14. One detail from the paragraph states, "The hair cells that are no longer connected to the blood supply die." What fact does this sentence support? \_\_\_\_\_

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**I Am Alive**  
**Summative Assessment #1**

**Teacher Key**

**This assessment is scored on a percentage correct with 28 being the total possible points.**

Read each question and fill in the circle by the correct answer.

1. \_\_\_\_\_ are the smallest structures that are alive. (SC.F.1.2.4.4.1)
  - A. Membranes
  - B. Cells**
  - C. Organs
  - D. Building blocks
2. \_\_\_\_\_ are made of cells. (SC.F.1.2.4.4.1)
  - A. Bones
  - B. Animals
  - C. Human organs
  - D. All of the above**
3. What must be used to see a cell?
  - A. Eyes
  - B. Organelles
  - C. Microscopes**
  - D. We can't see cells.
4. What do cells need to stay alive? (SC.F.1.2.4.4.2)
  - A. Food, oxygen**
  - B. Cytoplasm, oxygen
  - C. Food, Urea
  - D. Cytoplasm, Urea
5. What are plants made of? (SC.F.1.2.4.4.1)
  - A. Seeds
  - B. Cells**
  - C. Organs
  - D. Roots
6. What are animals made of? (SC.F.1.2.4.4.1)
  - A. Food and energy
  - B. Organs
  - C. Membranes
  - D. Cells**
7. Which of these is NOT made of cells? (SC.F.1.2.4.4.1)
  - A. Tuna
  - B. Apple
  - C. Eggs
  - D. Soft drink**
8. Why do cells get rid of urea? (SC.F.1.2.4.4.2)
  - A. The cells get too full.
  - B. Urea is waste that the cell can't use.**
  - C. Urea is in the cytoplasm.
  - D. The organelles would die.
9. Write an explanation of how cells work to keep our bodies alive. Be sure to tell everything you have learned. If more space is needed, turn your paper over and continue on the back. (10 points) (SC.F.1.2.4.4.2) **The following is criteria to look for in the written explanation. Look for these ideas, not the exact wording. Each criterion is worth 2 points written in the text and 2 points shown in the illustration.**
  - 1. All parts of our bodies are made of cells.**
  - 2. Cells rid themselves of waste like urea and excess water.**
  - 3. Cells carry food, oxygen, and urea to other cells.**
  - 4. Cells take in the food and oxygen our cells need to stay alive.**
  - 5. Cells reproduce themselves to help our bodies grow and heal.**

Read the paragraph, and then answer the questions below. (L.A.A.2.2.1.4.1)

### Wanted, Dead or Alive

Like all mammals, humans have hair on parts of their bodies. Hair is different from most parts of our bodies because part of our hair is alive and part of our hair is dead. Hair roots are alive. Each hair grows in its own tiny sack called a follicle. At the bottom of the follicle is the root of one hair. As the cells of the root divide, the hair grows longer. As the hair grows, it moves away from the blood supply that brings food and oxygen to the cells. Only the roots remain in contact with the blood. The hair cells that are no longer connected to the blood supply die. A haircut doesn't hurt because the hair being cut is dead.

11. What is the main idea of this paragraph? Part of our hair is alive and part is dead.

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12. Since we know that a hair cut doesn't hurt because the hair cells are dead, it is implied that it doesn't hurt to cut our fingernails because our fingernail cells are dead.

13. One fact from the paragraph states, "Hair roots are alive." Copy one detail sentence from the paragraph that supports this fact. Only the roots remain in contact with the blood.

14. One detail from the paragraph states, "The hair cells that are no longer connected to the blood supply die." What fact does this sentence support? Parts of our hair are dead.

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