**PERFORMANCE ASSESSMENT**

**Process**

This project is for 5th graders, who will have to create an accurate diagram of the digestive system. The students will work in partners. The first step will be to have each partner lie down on a piece of butcher paper, while the other partner traces around him or her, then vice versa. Once the outline of the person is completed, the students will need to fill in the rest of the elements of the digestive system and label them correctly (esophagus, tongue, stomach, etc.). They will also need to include an accurate title at the top of the page. They need to have correct spelling on the labels, nice neat lines (with minimal erase marks), and the drawing should be colored in. Afterwards, the students will be asked to fill in an unlabeled copy of the diagram.

**Objectives**

1. The student (A) will be able to draw an accurate diagram of the digestive system (B) using all 15 elements of the digestive system (C) with 85% accuracy (D).
2. The student (A) will be able to correctly label each of the 15 elements of the digestive system (B) explaining where each element is located in the human body (C) with 100% accuracy (D).
3. The student (A) will be able to recall at least 10 of the 15 elements in the digestive system (B) on an unlabeled diagram (C) with 90% accuracy.

**Colorado Academic Standard: (Life Science):**

**Area:** *Science: PG/LIF1 (L-2)*

**Grade level:** *Fifth Grade*

**Page:** *70*

**Evidence Outcome:** *d.* Create and evaluate models of human body systems and organs

**21st Century & Readiness Skills:** *(Nature of Science)*

* Critically evaluate models of the human body, identifying the strengths and weaknesses of the model in representing complex natural phenomena.

**Evaluation Standards**

1. Title – informative, centered, larger than all other text
2. Labels – every item that needs to be identified has a label. It is clear which label goes with which structure
3. General Formatting – The drawing is large enough to be clear; includes student name, class, and date are present
4. Drawing General – lines are clear and not smudged; almost no eraser marks; color is used to enhance drawing; excellent quality overall
5. Accuracy – 85% or more of the assigned structures are drawn accurately and are recognizable. All assigned structures are labeled accurately.
6. Spelling – All words are spelled correctly in the title, labels and caption/description.
7. Knowledge Gained – When asked about 10 items in an unlabeled drawing of the same system; the student can identify all of them accurately.

**Scientific Drawings: Digestive System**

Teacher Name: Ms. Robinson

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| CATEGORY | Weight for Each Category | 4 | 3 | 2 | 1 |
| Title | X1 (up to 4 pts available) | Title is informative, centered, and larger than other text. | Title is informative and larger than other text. | Title is informative and centered. | The title is incomplete and does not clearly indicate what organism is pictured. |
| Labels | X2 (up to 8 pts available) | Every item that needs to be identified has a label. It is clear which label goes with which structure. | Almost all items (90%) that need to be identified have labels. It is clear which label goes with which structure. | Most items (75-89%) that need to be identified have labels. It is clear which label goes with which structure. | Less than 75% of the items that need to be identified have labels OR it is not clear which label goes with which item. |
| General Formatting | X2 (up to 8 pts available) | The drawing is large enough to be clear. Student name, class, and date are present. | The drawing is large enough to be clear in most areas. Student name, class, and date are present. | The drawing is a little too large or a little too small. Student name, class, and date are present. | The drawing is much too small or much too large. |

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| Drawing | X1 (up to 4 pts available | Lines are clear and not smudged. There are almost no erasures or stray marks on the paper. Color is used carefully to enhance the drawing. Overall, the quality of the drawing is excellent. | There are a few erasures, smudged lines or stray marks on the paper, but they do not greatly detract from the drawing. Color is used carefully to enhance the drawing. Overall, the drawing is good. | There are a few erasures, smudged lines or stray marks on the paper, which detract from the drawing OR color is not used carefully. Overall, the quality of the drawing is fair. | There are several erasures, smudged lines or stray marks on the paper, which detract from the drawing. Overall, the quality of the drawing is poor. |
| Accuracy | X3 (up to 12 pts available) | 85% or more of the assigned structures are drawn accurately and are recognizable. All assigned structures are labeled accurately. | 84-75% of the assigned structures are drawn accurately and are recognizable. All assigned structures are labeled accurately. | 74-65% of the assigned structures are drawn accurately and are recognizable. 94-85% of the assigned structures are labeled accurately. | Less than 65% of the assigned structures are drawn AND/OR labeled accurately. |
| Spelling | X2 (up to 8 pts available) | All words are spelled correctly in the title, labels and caption/description. | All common words are spelled correctly in the title, labels and description. 1-2 scientific words may be misspelled. | 85% of the words are spelled correctly in the title, labels, and description. | Fewer than 85% of the words are spelled correctly in the title, labels, and description. |

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| Knowledge Gained | X3 (up to 12 pts available) | When asked about 10 items in an unlabeled drawing of the same system, the student can identify all of them accurately. | When asked about 10 items in an unlabeled drawing of the same system, the student can identify 8-9 of them accurately. | When asked about 10 items in an unlabeled drawing of the same system, the student can identify 6-7 of them accurately. | When asked about 10 items in an unlabeled drawing of the same system, the student can identify 5 or less of them accurately. |