



## Science Grades 4 & 6

### Item Types and Descriptions

#### Overview:

The test consists of machine scored items including selected-response, evidence-based selected-response, technology-enhanced, and technology-enhanced constructed-response. All items are worth 1 score point.

#### Selected-Response:

Students are presented with an item and four possible answer options. Students demonstrate their knowledge by selecting the one correct answer.

#### Multi-Select:

Students are presented with an item and 5-6 possible answer options. Students demonstrate their knowledge by selecting all the correct answers and only the correct answers. The number of correct answers is identified in the body of the prompt or question.

#### Evidence-Based Selected Response (EBSR):

EBSR items have two parts. Part A requires a student to select the correct argument/claim based on given information. Part B requires students to select the correct evidence or reasoning that supports the correct argument/claim in Part A. To receive one score point for a correct response, students must answer both parts of the item correctly.

#### Technology Enhanced Items:

**Drag and Drop:** Students demonstrate their knowledge by clicking on selectable objects and sorting them into groups, steps, or other arrangements. For example, students may be required to construct or complete a model, or to complete a list of statements based on a given scenario.

**Hot Spot:** Students interact with selectable objects to demonstrate their knowledge, skills, and abilities to answer a question. Selectable objects include whole, or parts of figure, graphs, tables, verbal descriptions, or symbolic representations.

**Highlighting:** Students demonstrate their knowledge by highlighting selected words, phrases, or sentences in a paragraph to provide evidence or information to answer a question.

**Match Interaction Table:** Students are presented with a matrix consisting of science formulas or statements across the columns and rows. Students demonstrate their knowledge by selecting one or more correct answers per row to associate correct statements in the matrix.

**Technology-Enhanced Constructed Response Items:**

Bar Graph Response: Students are presented with an item. The students demonstrate their knowledge by constructing a bar graph based on given data or evidence.

Short Text Input: Students are presented with an item. The students demonstrate their knowledge by providing a short textual or numerical answer to the item.

Drop-down: Students demonstrate their knowledge by selecting predefined terms, phrases, or numbers to construct one or more sentences. Each drop-down menu is prepopulated with a blank space; the student then selects from the options. Multiple drop-down menus may be included within one item.

**Stimulus Sets:**

Each test has three stimulus sets. These include a passage and three associated items. The passage provides a context that may include graphs, tables, or other types of models. Some items will directly relate to the passage, and other items may require a student to apply their skills and knowledge to a connected process, mechanism, phenomenon, etc.