

Item Types Teacher Guide

This guide provides educators with details on the item types students may experience in the Item Types Tutorial and on the MCA. Educators may also access the [Item Types Tutorial](#) (PearsonAccess Next > Preparing for Testing > Student Tutorial) to familiarize themselves with it before using the tutorial with students. While the items in the tutorial are generic, any information specific to a content area is addressed in this guide.

For more information on constructed-response items and tabbed phenomena, which are being field tested in preparation for Science MCA-IV, refer to the [Science MCA-IV New Items Tutorial](#) (PearsonAccess Next > Preparing for Testing > Student Tutorial).

Standard text-to-speech is available in the Item Types Tutorial if students want audio support for the text in the tutorial. Note: Text-to-speech is provided for all item types in the tutorial, even though reading items do not have text-to-speech in the test.

| Item Types | Sample Screenshot | | | | | | | | | | |
|---|---|---------------------|--|-------|--------------------|---|----|---|----|---|----|
| <p>Multiple Response</p> <p>For multiple-response items, students should select all of the answers that they think are correct. These items have a square checkbox next to each answer choice.</p> <p>Students must read the directions carefully before answering the item so they know if a specific number of responses is required. Some items will specify how many responses to select and other items will not. For science, some items will not let the student move forward or back until the required number of responses is selected.</p> <p>To change their answer(s), students select the answer option(s) they want to change.</p> | <p>The table shows the number of students in grades 3, 4, and 5 who attended a school carnival.</p> <table border="1"> <thead> <tr> <th colspan="2">Carnival Attendance</th> </tr> <tr> <th>Grade</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>40</td> </tr> <tr> <td>4</td> <td>30</td> </tr> <tr> <td>5</td> <td>50</td> </tr> </tbody> </table> <p>Which students attended the carnival? Select the grades you want to choose.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Kindergartners <input type="checkbox"/> First graders <input type="checkbox"/> Second graders <input checked="" type="checkbox"/> Third graders <input checked="" type="checkbox"/> Fourth graders <input checked="" type="checkbox"/> Fifth graders <p>Sample shown: Grades 3–5 Tutorial, Item 10 (This item type also appears in the Grades 6–HS Tutorial, Item 8)</p> | Carnival Attendance | | Grade | Number of Students | 3 | 40 | 4 | 30 | 5 | 50 |
| Carnival Attendance | | | | | | | | | | | |
| Grade | Number of Students | | | | | | | | | | |
| 3 | 40 | | | | | | | | | | |
| 4 | 30 | | | | | | | | | | |
| 5 | 50 | | | | | | | | | | |

Item Types

Drag and Drop

Students answer drag-and-drop items by dragging an answer choice to the correct box. Answer choices may be text or graphics.

While there are different types of drag-and-drop items, the functionality is similar across all types:

- Some items let students drag two or more answer choices into the same box, while other items allow only one choice.
- In some items, answer choices can only be dragged into certain boxes.
- In some items, the same answer choice can be dragged multiple times (i.e., it replenishes after it is dragged; Example 1), but in other items, each answer choice can be dragged only one time (Example 2).

When an answer choice is selected and dragged, the boxes into which it can be placed turn blue.

To change an answer, students may need to drag a choice out of the box before they can put another one in.

Example 1

The diagram shows the paths a student used to go from the school building to the track and field and from the track and field to the food court.



Use the centimeter ruler to measure the distances represented by the arrows.

Drag the numbers into the correct boxes.

The distance in the diagram from the school building to the track and field is centimeters.

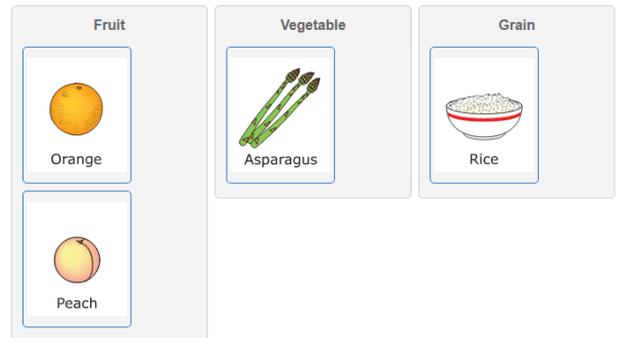
The distance in the diagram from the track and field to the food court is centimeters.

Sample shown: Grades 3–5 Tutorial, Item 5
(This item type also appears in the Grades 3–5
Tutorial, Item 9 and
Grades 6–HS Tutorial, Item 4)

Example 2

A booth at an international festival sold fresh foods. Identify each food as a fruit, vegetable, or grain.

Drag each food into the correct box.



Sample shown: Grades 6–HS Tutorial, Item 7
(This item type also appears in the Grades
3–5 Tutorial, Item 4 and Grades 6–HS Tutorial,
Item 14)

Item Types

Text Extractor (Reading MCA only)

Text extractor items are a specific type of drag-and-drop item. Students must drag text selections from a passage into boxes to answer the item. Each text selection can only be used one time.

To remove a selection, students must select the “x” in the upper-right corner of the box or drag a new text selection into the box.

During the carnival, students can buy **hot dogs**, **puzzles**, **school spirit flags**, **popcorn**, **toy animals**, **stickers**, **pizza**, and **ice cream**.

Which items would students most likely buy at the food court?
Drag the items into the boxes.

Food Court Items

- hot dogs
- popcorn
- pizza
- ice cream

Sample shown: Grades 3–5 Tutorial, Item 2
(This item type also appears in the Grades 6–HS Tutorial, Item 2)

Hot Spot

Students answer hot spot items by selecting an object. Objects may be text or graphics.

There may be more than one answer, so students will select as many objects as needed to answer the question.

To change their answer, students select the object(s) again. Then they select the new object(s) they want to choose.

A student visited the food court, the math contest, and the history trivia booth. Identify each location the student visited.
Select each location you want to choose.

- Weather Experiment
- Math Contest
- History Trivia Booth
- Track and Field
- Food Court
- School Building

Sample shown: Grades 3–5 Tutorial, Item 6
(This item type also appears in the Grades 6–HS Tutorial, Item 15)

Hot Text (Reading and Science MCA only)

Hot text items are a specific type of hot spot item. Students answer these items by selecting one or more highlighted selections of the text.

To change their answer, students select the object(s) again. Then they select the new object(s) they want to choose.

The table shows walking times between events at the carnival.

| Event | Time (minutes) |
|---------------------------------------|----------------|
| Track and Field to Weather Experiment | 1 |
| Weather Experiment to Math Contest | 1 |
| Math Contest to Food Court | 2 |

Based on the information in the table, identify the sentence that contains an error.
Select the phrase you want to choose.

- It takes **1 minute to walk from the track and field to the weather experiment.**
- It takes 1 minute to walk from the weather experiment to the math contest.
- It takes 1 minute to walk from the math contest to the food court.

Sample shown: Grades 3–5 Tutorial, Item 7
(This item type also appears in the Grades 6–HS Tutorial, Item 5)

Item Types

Fill in the Blank (Mathematics and Science MCA only)

For some items, students must type an answer into the box using their keyboard.

For all grades of mathematics:

- Students can answer using digits 0–9, the forward slash (/) to show fractions, and the period (.) to show decimals.
- Students must change a mixed number to an improper fraction or decimal (as appropriate for the item) because a space is not an allowable character.
- For items with an answer greater than or equal to 1,000, students must enter the answer without a comma.

In addition, for grades 7, 8, and 11 mathematics, students can use the hyphen (-) to show negative numbers.

For science, students can answer using letters A–Z or the digits 0–9, depending on the question. On some items, a hyphen for a negative sign (-), and a period (.) for a decimal are allowable characters.

To change or remove their answer, students use the backspace key on the keyboard and then enter their new answer.

Bar Graph (Mathematics and Science MCA only)

Students answer bar graph items by dragging the top of one or more bars in the bar graph. For some items, students may only be able to move some of the bars.

To change their answer, students drag the top of the bar to move it.

Sample Screenshot

Ella answered 4 questions at the history trivia booth. The table shows her answer for each question.

Ella's Answers

| Question | Answer |
|----------|-----------|
| 1 | 1776 |
| 2 | Mexico |
| 3 | Minnesota |
| 4 | Ohio |

What fraction of Ella's answers are states?

Enter your answer in the box.

Sample shown: Grades 3–5 Tutorial, Item 15

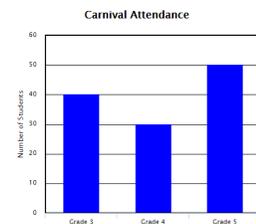
(This item type also appears in the Grades 6–HS Tutorial, Item 12 and 13)

The table shows the number of students in grades 3, 4, and 5 who attended a school carnival.

| Grade | Number of Students |
|-------|--------------------|
| 3 | 40 |
| 4 | 30 |
| 5 | 50 |

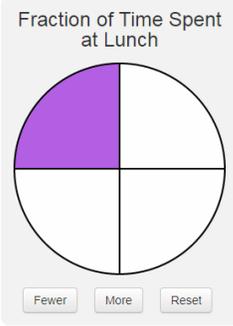
Create a bar graph that shows the number of students in each grade who attended the school carnival.

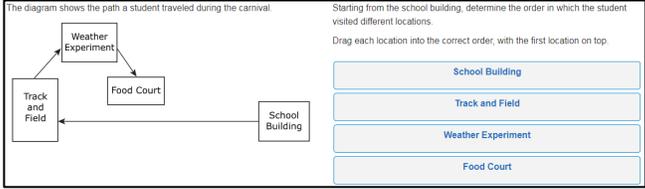
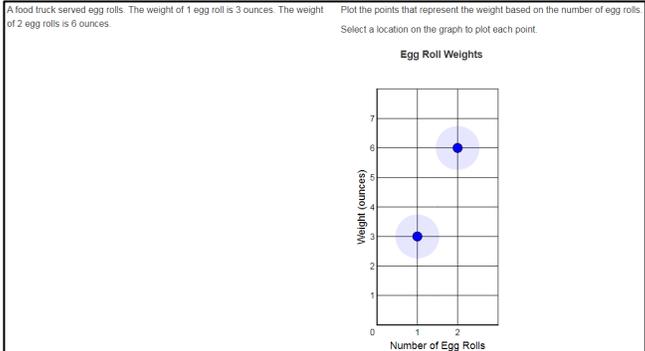
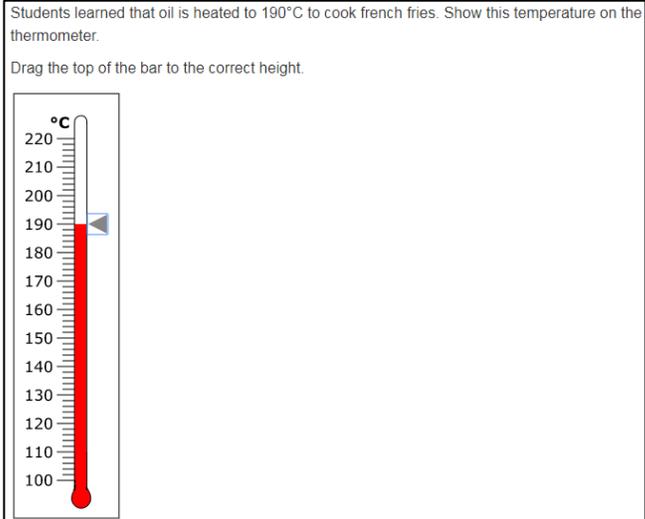
Drag the top of each bar to the correct height.



Sample shown: Grades 3–5 Tutorial, Item 1

(This item type also appears in the Grades 6–HS Tutorial, Item 1)

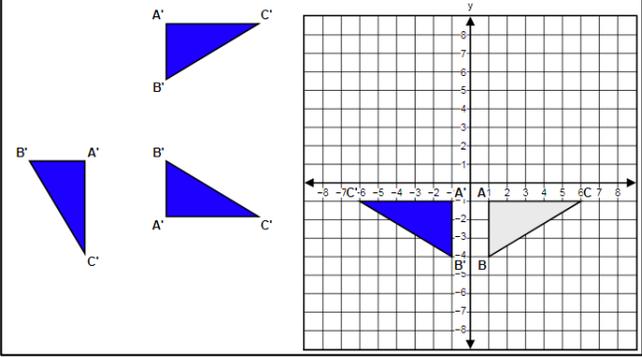
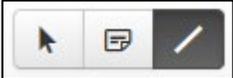
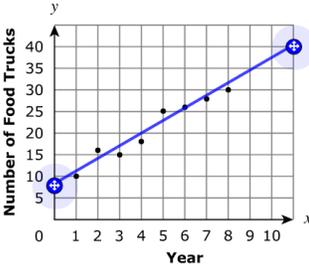
| Item Types | Sample Screenshot | | | | | | | | | | | | |
|--|---|-------------------------------------|-------------------------------------|--------------------|--------------|-------|-------------------------------------|-------------------------------------|--------------------------|-------|-------------------------------------|--------------------------|-------------------------------------|
| <p>Fraction Model (Mathematics MCA only)</p> <p>For most fraction model items, students must use the More or Fewer buttons: they select More to divide the model into more parts, and they select Fewer to divide the model into fewer parts. Students then select the parts they want to shade to complete the model.</p> <p>To remove the shading on a part of the model, students select the part again.</p> <p>For some fraction model items, the More and Fewer buttons are grayed out and students only need to select the parts of the model they want to shade to answer the question.</p> <p>To start the item over, students select the Reset button.</p> | <p>During the school carnival, a student spent $\frac{1}{4}$ of the time at lunch. Create a fraction model that is shaded to show the fraction of time spent at lunch.</p> <p>Divide the figure into equal parts by using the More and Fewer buttons. Then, select the parts you want to shade.</p>  <p>Sample shown: Grades 3–5 Tutorial, Item 3 (This item type also appears in the Grades 6–HS Tutorial, Item 3)</p> | | | | | | | | | | | | |
| <p>Inline Choice</p> <p>For inline choice items, students must select the answer from one or more dropdown menus.</p> <p>To view all of the answer choices, students select the dropdown menu. Students select one answer from each dropdown menu.</p> <p>To change their answer, students select a different answer from the dropdown menu.</p> | <p>Spaghetti is originally from Italy.</p>  <p>Select the continent to complete the sentence.</p> <p>Italy is located in Europe</p> <ul style="list-style-type: none"> Choose... Africa Asia Australia <li style="background-color: #e0e0e0;">Europe North America South America <p>Sample shown: Grades 6–HS Tutorial, Item 6 (This item type also appears in the Grades 3–5 Tutorial, Item 8)</p> | | | | | | | | | | | | |
| <p>Table Grid</p> <p>For some table grid items, students select one or more answers in each row or column. Students should select all of the answers that they think are correct. These items have a square checkbox for each answer choice. To remove a selection, students select the square checkbox again.</p> <p>For some table grid items, students select only one answer in each row or column. These items have a circle for each answer choice. To change their selection, students select a different circle.</p> | <p>Sarah and Akeem volunteered at different events at the carnival.</p> <ul style="list-style-type: none"> • Sarah: Track and Field, Weather Experiment • Akeem: Track and Field, Math Contest <p>At which events did each student volunteer?</p> <p>Select the answers you want to choose in each row.</p> <table border="1"> <thead> <tr> <th>Student</th> <th>Track and Field</th> <th>Weather Experiment</th> <th>Math Contest</th> </tr> </thead> <tbody> <tr> <td>Sarah</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Akeem</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Sample shown: Grades 3–5 Tutorial, Item 11 (This item type also appears in the Grades 6–HS Tutorial, Item 9)</p> | Student | Track and Field | Weather Experiment | Math Contest | Sarah | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Akeem | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Student | Track and Field | Weather Experiment | Math Contest | | | | | | | | | | |
| Sarah | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| Akeem | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |

| Item Types | Sample Screenshot |
|--|---|
| <p>Order</p> <p>Students answer order items by dragging the answer options into the correct order.</p> <p>To change their answer, students drag an answer choice to another position.</p> <p>Note: For some items, students can return the answer options back to their original order to answer the item and go to the next item. For others, the item will appear to be unanswered if the answer options are returned to their original order; students must reorder the answer options to answer the item and go to the next item.</p> |  <p>Sample shown: Grades 3-5 Tutorial, Item 12 (This item type also appears in the Grades 6-HS Tutorial, Item 10)</p> |
| <p>Point Graph (Mathematics and Science MCA only)</p> <p>For some graphing items, students must select one or more points on a graph.</p> <p>Students select a location on the graph to plot a point.</p> <p>To move a point, students select and drag the point they want to move.</p> <p>To remove a point, students select the point they want to remove.</p> <p>For some items, a line or line segment will connect the points the student plotted.</p> |  <p>Sample shown: Grades 6-HS Tutorial, Item 16 (This item type also appears in the Grades 3-5 Tutorial, Item 13)</p> |
| <p>Slider (Mathematics and Science MCA only)</p> <p>For slider items, students must drag an arrow slider up or down to answer the question.</p> <p>To change their answer, students drag the arrow slider to a new location.</p> |  <p>Sample shown: Grades 6-HS Tutorial, Item 11 (This item type also appears in the Grades 3-5 Tutorial, Item 14)</p> |

| Item Types | Sample Screenshot |
|---|---|
| <p>Ruler (Science MCA only)</p> <p>Students see the Ruler button in the toolbar only on items where they need to use it.</p> <p>To use the ruler, students select the Ruler button in the toolbar.</p> <p>Students then drag the ruler to the place on the question they want to measure. Students can select the handles at either end of the ruler to rotate the ruler.</p> <p>To close the ruler, students select the Ruler button again.</p> | <div style="text-align: center;">  </div> <div style="border: 1px solid black; padding: 5px;"> <p>A student bought a food truck key chain at the international festival.</p> <div style="text-align: center;">  </div> <p>Using the inch ruler, what is the length of the key chain?</p> <p>Enter your answer in the box.</p> <div style="display: flex; align-items: center;"> <input style="width: 50px; text-align: center;" type="text" value="3"/> inches </div> </div> <p style="text-align: center;">Sample shown: Grades 6–HS Tutorial, Item 12 (This item type also appears in the Grades 3–5 Tutorial, Item 5)</p> |

Grades 6–HS Item Types Tutorial Only

The following item types are in the Grades 6–HS Item Types Tutorial ONLY.

| Item Types | Sample Screenshot |
|---|---|
| <p>Shape Transformation (grades 7 and 11 Mathematics MCA only)</p> <p>Students answer shape transformation items by selecting and dragging a shape to the appropriate position on the grid.</p> <p>To change their answer, students move the shape to a different position or drag a different shape onto the grid.</p> | <p>Grades 7 and 11 Math Only</p> <p>The pattern used on signs advertising an international festival is 2 triangles. The first triangle is shown on the coordinate plane. The second triangle is a reflection of the first triangle across the y-axis. What is the position of the second triangle?</p> <p>Show the transformation by selecting a figure and moving it to the correct location.</p>  <p>Sample shown: Grades 6–HS Tutorial, Item 17</p> |
| <p>Straightedge (grades 8 and 11 Mathematics MCA only)</p> <p>Students see the Straightedge button in the toolbar only on items where they are allowed to use it.</p> <p>Note: In the test, students are not prompted to use the Straightedge tool, but there is a hint in the tutorial to prompt them to use the tool. When using the tutorial with students, explain that this hint will not appear in the test.</p> <p>To use the straightedge, students select the Straightedge button in the toolbar.</p> <p>To move the straightedge on the screen, students select the blue circles on the ends of the tool and drag them.</p> <p>To close the straightedge, students select the Straightedge button again.</p> |  <p>Grades 8 and 11 Math Only</p> <p>The scatterplot shows the number of food trucks at an international festival for the last 8 years.</p> <p>Festival Food Trucks</p>  <p>Based on a line of best fit, how many food trucks can be expected in year 10?</p> <p>(Hint: Use the straightedge tool to create a line of best fit.)</p> <p> <input type="radio"/> A. 30 <input type="radio"/> B. 34 <input checked="" type="radio"/> C. 37 <input type="radio"/> D. 40 </p> |

Item Types

Number Line (grades 8 and 11 Mathematics MCA only)

Students answer number line items by selecting a type of solution set and then moving the endpoints to the correct position. Number line items can include both open- and closed-endpoint answer options.

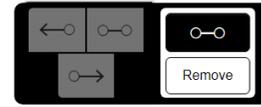
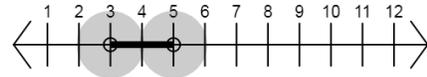
Some items allow students to graph more than one solution on the number line. For these items, students select additional solution set types as needed to display their answer. The active (selected) solution is in black and the inactive solution is in gray.

Students may need to remove a type of solution before they can select another one by selecting Remove on the active solution.

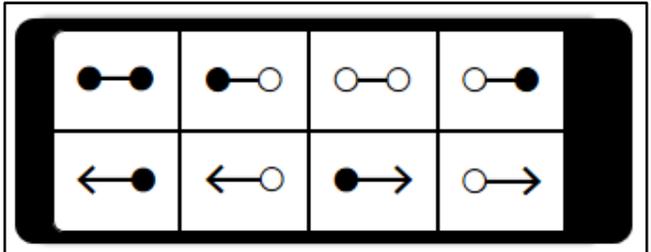
Grades 8 and 11 Math Only

A student spent between 3 and 5 hours at an international festival. What are the possible amounts of time the student spent at the festival?

Select a type of solution set. Then move the endpoints to the correct position.



Sample shown: Grades 6–HS Tutorial, Item 19



Sample shown: The different types of solution sets that may be available for a student to select.

Item Types

Function Graph (grade 11 Mathematics MCA only)

Students answer function graph items by selecting one graph type and graphing a solution.

Note: Not all graph types are available on all items. Some items only have the option to select one graph type.

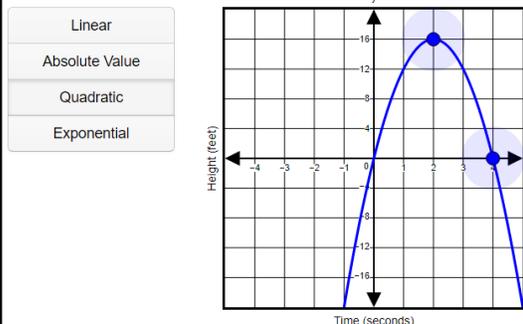
- **Linear Functions:** Students select the Linear button. A line with two points will appear, and students drag each point to the appropriate location on the grid. To remove the linear function, students select the Linear button again.
- **Absolute Value Functions:** Students select the Absolute Value button. An absolute value function with two points will appear. One point is the vertex, and the other is another point on the function. Students drag each point to the appropriate location on the grid. To remove the absolute value function, students select the Absolute Value button again.
- **Quadratic Functions:** Students select the Quadratic button. A quadratic function with two points will appear. One point is the vertex, and the other is another point on the function. Students drag each point to the appropriate location on the grid. To remove the quadratic function, students select the Quadratic button again.
- **Exponential Functions:** Students select the Exponential button. An exponential function with two points will appear. An asymptote will also appear on the graph as a gray dashed line on the x-axis. Students drag the asymptote line up or down to the appropriate location on the grid. Then, students drag each point to the appropriate locations on the grid. To remove the exponential function, students select the Exponential button again.

Sample Screenshot

Grade 11 Math Only

At the international festival, a ball was launched from the ground into the air. It reached a maximum height of 16 feet after 2 seconds and hit the ground after 4 seconds. Model the relationship representing the height of the ball as a function of time.

Select the button to choose the type of graph. Drag the 2 points and the asymptote, if applicable, to the correct position.



Sample shown: Grades 6–HS Tutorial, Item 20

Item Types

System of Inequalities (grade 11 Mathematics MCA only)

Students select the Inequality 1 box to graph the first inequality. A large arrow will appear to the right of the box when it has been selected. Inside the box, students select the solid or dashed line for the inequality and plot two points on the grid. A solid or dashed line will connect the two points.

Students then select the Inequality 2 box to graph the second inequality. Inside the box, students select the solid or dashed line for the second inequality and plot two points on the grid.

To change a line, students select the box representing the line they want to change. On the grid, students select or move the point(s) they want to change.

Next, students select the box labeled Shaded Region and then select a region on the grid to shade.

To remove the shading, students must first ensure the box labeled Shaded Region is selected. A large arrow will appear to the right of the box. Then students select the shaded region.

Sample Screenshot

Grade 11 Math Only

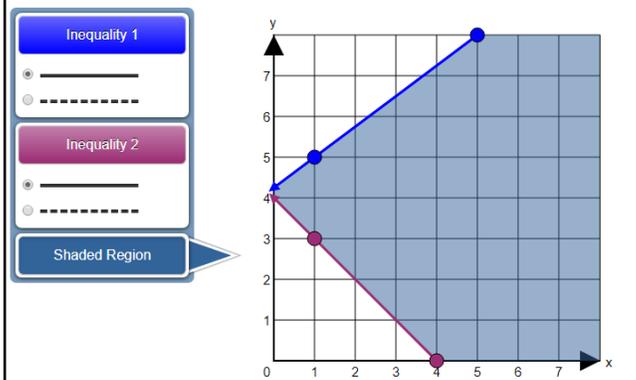
A system of inequalities is shown.

$$y < 3 + x$$

$$y > 3 - x$$

What is the solution to the system of inequalities?

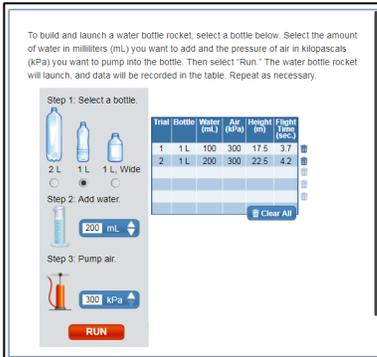
Graph the 2 inequalities on the grid, and select the region that represents the solution for the system.



Sample shown: Grades 6–HS Tutorial, Item 21

Item Types Not Included in the Item Types Tutorial

The following item types are not included in the Item Types Tutorial; students may practice answering these items in the item samplers, as needed.

| Item Types | Sample Screenshot | | | | | | | | | | | | | | | | | | |
|---|---|------------|-----------|------------|-------------------|------------|-------------------|---|-----|-----|-----|------|-----|---|-----|-----|-----|------|-----|
| <p>Multiple Choice</p> <p>Multiple-choice items have only one correct answer. These items have a circle next to each answer choice.</p> <p>Students answer multiple-choice items by selecting the answer or the circle to the left.</p> <p>Students change their answer by selecting a different answer.</p> | <p>Connie lists her scores from a video game.</p> <p style="text-align: right;">14,087 13,345 14,613 14,301</p> <p>Which list shows the scores listed from greatest to least?</p> <ul style="list-style-type: none"> <input type="radio"/> A. 14,613 13,345 14,301 14,087 <input checked="" type="radio"/> B. 14,613 14,301 14,087 13,345 <input type="radio"/> C. 14,087 14,613 14,301 13,345 <input type="radio"/> D. 13,345 14,087 14,301 14,613 <p style="text-align: center;">Sample shown: Grade 3 Mathematics Item Sampler, Section 1, Item 1</p> | | | | | | | | | | | | | | | | | | |
| <p>Simulations (Science MCA only)</p> <p>Some science scenarios include simulations where students run a simulated experiment. Some items require using data generated by running the simulation.</p> <p>Students choose variables or options using dropdown menus and buttons.</p> <p>Students can remove a row of data from the table by selecting the trash can or delete all of the information in the table by selecting the Clear All button.</p> <p>Students may repeat the simulation as many times as needed.</p> |  <p>To build and launch a water bottle rocket, select a bottle below. Select the amount of water in milliliters (mL) you want to add and the pressure of air in kilopascals (kPa) you want to pump into the bottle. Then select "Run". The water bottle rocket will launch, and data will be recorded in the table. Repeat as necessary.</p> <p>Step 1: Select a bottle.</p> <p>2 L <input type="radio"/> 1 L <input checked="" type="radio"/> 1 L Wide <input type="radio"/></p> <p>Step 2: Add water.</p> <p>200 mL</p> <p>Step 3: Pump air.</p> <p>300 kPa</p> <p>RUN</p> <table border="1"> <thead> <tr> <th>Trial</th> <th>Bottle</th> <th>Water (mL)</th> <th>Air (kPa)</th> <th>Height (m)</th> <th>Flight Time (sec)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 L</td> <td>100</td> <td>300</td> <td>17.5</td> <td>3.7</td> </tr> <tr> <td>2</td> <td>1 L</td> <td>200</td> <td>300</td> <td>22.5</td> <td>4.2</td> </tr> </tbody> </table> <p>What is the average speed of the water bottle rocket when it travels 20 meters in 5 seconds?</p> <p>You can use the calculator to help you answer this question.</p> <ul style="list-style-type: none"> <input checked="" type="radio"/> A. 4 meters per second <input type="radio"/> B. 15 meters per second <input type="radio"/> C. 25 meters per second <input type="radio"/> D. 100 meters per second <p style="text-align: center;">Sample shown: Grade 8 Science Item Sampler, Section 1, Item 9</p> | Trial | Bottle | Water (mL) | Air (kPa) | Height (m) | Flight Time (sec) | 1 | 1 L | 100 | 300 | 17.5 | 3.7 | 2 | 1 L | 200 | 300 | 22.5 | 4.2 |
| Trial | Bottle | Water (mL) | Air (kPa) | Height (m) | Flight Time (sec) | | | | | | | | | | | | | | |
| 1 | 1 L | 100 | 300 | 17.5 | 3.7 | | | | | | | | | | | | | | |
| 2 | 1 L | 200 | 300 | 22.5 | 4.2 | | | | | | | | | | | | | | |

Item Types

Video Player (Science MCA only)

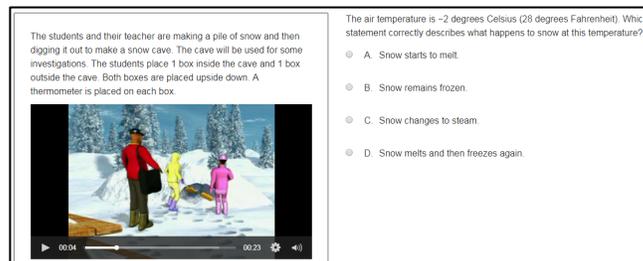
Some science scenarios include a video player. Students select Play to start the video.

Students have the option to pause the video, and it can be replayed as needed.

Students can adjust the speed and volume of the video. Closed captioning is available for students who wish to use it. Students must select the gear or the Closed Captions "CC" button, and then select "English" to turn it on. Students can customize the appearance of closed captions by selecting "Settings." Once closed captioning is turned on, it will remain on for all subsequent videos.

The following keyboard shortcuts can be used with the video player:

- "C" key – toggles closed captioning on or off
- "M" key – mute or unmute video volume
- Space bar/"Enter" key – pause or play video
- Down/up arrows – decrease or increase volume in 10% increments
- Left/right arrows – seek forward or backward in the video in 5-second increments
- 0-9 keys – fast seek to a certain percentage of the video



The students and their teacher are making a pile of snow and then digging it out to make a snow cave. The cave will be used for some investigations. The students place 1 box inside the cave and 1 box outside the cave. Both boxes are placed upside down. A thermometer is placed on each box.

The air temperature is -2 degrees Celsius (28 degrees Fahrenheit). Which statement correctly describes what happens to snow at this temperature?

- A. Snow starts to melt.
- B. Snow remains frozen.
- C. Snow changes to steam.
- D. Snow melts and then freezes again.

Sample shown: Grade 5 Science Item Sampler,
Section 1, Item 10