

Administration Procedures for the Sixth Grade Science Assessment TALKS

Given data and graph paper students will construct a bar graph including the essential parts of a bar graph: title, axes, labels, keys, and spacing.

Students will take a pre-assessment to determine knowledge of bar graphs at the beginning of the 1st semester.

Teachers will collect data and provide instruction to increase student competency in using various forms of data to create bar graphs.

Students will take a post assessment by the end of the school year to demonstrate knowledge gained.

TALKS = Title, Axis, Labels, Keys, Spacing

Sixth Grade Science Assessment

Create a bar graph using the following information.

Even though there are 92 elements that are naturally found, only eight of them are common in the rocks that make up the Earth's outer layer, the crust. Together, these 8 elements make up more than 98% of the crust.

The 8 Most Common Elements in the Earth's Crust (by mass):

47% Oxygen (O)

28% Silicon (Si)

8% Aluminum (Al)

5% Iron (Fe)

4% Calcium (Ca)

3% Sodium (Na)

3% Potassium (K)

2% Magnesium (Mg)

Name _____ Period _____ Date _____

TALKS Graph Rubric	Points Available	Points Earned
<p>Title:</p> <p>Data has an appropriate title that clearly states the data displayed.</p> <p>The title is at the top of the graph.</p>	<p>10</p> <p>10</p>	
<p>Axis:</p> <p>The intersection at the x and y axes begins with zero.</p> <p>Units are written for each axis.</p>	<p>10</p> <p>10</p>	
<p>Labels:</p> <p>Data for the units represented on the x axis is labeled.</p> <p>Data for the units represented on the y axis is labeled.</p>	<p>10</p> <p>10</p>	
<p>Keys:</p> <p>Determined if a key is needed and, if included, is used appropriately.</p>	<p>20</p>	
<p>Spacing:</p> <p>All increments on the same axis are consistent.</p> <p>At least 2/3 of the graph space was used for the graph.</p>	<p>10</p> <p>10</p>	
<p>Total Points</p>	<p>100</p>	