

**Worksheet 5-5—  
Lesson Plan  
Format**  
(adapted with permission)

Subject: General Science	Teacher: R. Phillips
Lesson Name: Measurement	Location: Clair E. Gale
Class: 7 <sup>th</sup> Grade	Unit Context: How does measurement impact daily life?
Date: 3/18/09	

<p>Activities:</p> <p>Evaluate the museum projects:</p> <p>Students and judges will view the museum projects on original measurement tools and, using the class-developed rubric, evaluate the projects</p>	<p>Big6™ Skills</p> <p>Evaluate:</p> <p>Use the rubrics that the class developed to judge the projects.</p>	<p>Idaho Science Standards</p> <p>7.S.1.2.3</p> <p>7.S.1.6.2</p>
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Learning Context: Projects demonstrating original, calibrated measuring tools have been created. Rubrics have been developed. Judges have been found. Layout spaces have been assigned. Evaluation is taking place.

Materials/Resources: rubric sheets.

Evaluation: compare scores on rubric sheets

Notes: Students and judges will provide feedback for projects. Teacher will tally rubric scores and comments to maintain anonymity.

Students will do a final reflection on how their attitudes toward measurement systems have changed from the beginning of the project.

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<p>Activities:</p> <p>Interview specialists who use a variety of measurements on a daily basis.</p> <p>Develop a list of interview questions.</p> <p>Set up a schedule of students, people to interview, and times of interviews to avoid overlaps.</p>	<p>Big6™ Skills</p> <p>ISS: identify specialists with measurement</p> <p>LA: set up schedules Develop questions</p> <p>UI: interview the specialists</p>	<p>Idaho Science Standards</p> <p>7.S.1.2.3</p>
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Learning Context: Measurement has major impact for many people on a daily basis. Identify how people use measurement and its impact on their jobs.

Materials/Resources: automotive mechanics, tailors, cooks, scientists, etc

Evaluation: Part of the project involves creating a news report about the importance of measurement in daily life.

Notes to students: Students prepared questions the previous day to ask the specialist. Tape recordings and notes will help the students remember the interviews. Students will work in pairs on the project.

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Subject: General Science	Teacher: R. Phillips
Lesson Name: Measurement	Location: Clair E. Gale
Class: 7 <sup>th</sup> Grade	Unit Context: How do I develop an original workable measurement tool?
Date: 3/18/09	

Activities:  Students will develop an original measurement tool and measure a list of common objects agreed upon by the students.	Big6™ Skills  Task Definition  Synthesis	Idaho Science Standards  7S.1.3.3  7.S.1.2.3  7.S.1.6.2
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Learning Context: After students observe how measurement tools are used in daily life, students will create an original, workable measurement tool divided into units and sub-units.

Materials/Resources: masking tape, wood strips, paper clips, (any other materials students may require to make their tool), common objects to make linear measurements

Evaluation: Students will use a commonly designed data table to record their measurement data. The data must be recorded using the original unit and sub-unit names as well as numbers.

Notes: Students need to predetermine the materials they will need for the original tool. Stress the need for originality. Encourage co-operation between groups but do not encourage duplication of systems.

## Worksheet 5-5— Lesson Plan

### Format

(adapted with permission)

Subject: General Science

Teacher: R. Phillips

Lesson Name: Measurement

Location: Clair E. Gale

Class: 7<sup>th</sup> Grade

Unit Context: What is measurement in the scientific world?

Date: 3/18/09

<p>Activities:</p> <p>Discussion Question: What is measurement and how does it affect my life?</p> <p>Video Clip: Measurement: Introduction: Standard Units of measurement and Making accurate measurements</p> <p>Write a paragraph summarizing the importance to scientific measurements. Include how measurement has impacted one of:</p> <ul style="list-style-type: none"> <li>A culture</li> <li>A nation</li> <li>Trade between countries</li> <li>Scientific discovery</li> </ul>	<p>Big6™ Skills</p> <p>Task Definition: How does measurement impact daily life?</p> <p>UI: view the video</p> <p>Synthesis: summarize</p>	<p>Idaho Science Standards</p> <p>7.S.1.2.3</p>
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Learning Context: In introducing the project of creating a unique, calibrated measurement tool, it is important to understand measurement and different kinds of measurement uses.

Materials/Resources: United Streaming video clip: Measurement: Introduction: Standard Units of Measurement (1:02) and Making accurate measurements (4:33)

Evaluation: In one paragraph, students will summarize the importance of measurement and how it affects their lives. I will be able to evaluate their understanding after reading the summaries.

Notes to self: Keep the discussion short so there is time for the 5 ½ minute video clips and summary. Bookmark the clip early so it is ready to play.

Measurement  
Roxann Phillips  
Robin Busch  
3/18/09

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