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

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

Evaluate the museum projects:

Students and judges will view the museum projects on original measurement tools and, using the class-developed rubric, evaluate the projects.

**Big6™ Skills**

**Evaluate:**

Use the rubrics that the class developed to judge the projects.

**Idaho Science Standards**

7.S.1.2.3

7.S.1.6.2

**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.
Subject: General Science

Lesson Name: Measurement

Class: 7th Grade

Date: 3/18/09

Teacher: R. Phillips

Location: Clair E. Gale

Unit Context: How does measurement impact daily life?

Activities:
- Interview specialists who use a variety of measurements on a daily basis.
- Develop a list of interview questions.
- Set up a schedule of students, people to interview, and times of interviews to avoid overlaps.

Big6™ Skills
- ISS: identify specialists with measurement
- LA: set up schedules
- Develop questions
- UI: interview the specialists

Idaho Science Standards
- 7.S.1.2.3

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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**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  
7S.1.2.3  
7S.1.6.2

**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.
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#### Activities:
- **Discussion Question:** What is measurement and how does it affect my life?
- **Video Clip:** Measurement: Introduction: Standard Units of measurement and Making accurate measurements
- **Write a paragraph summarizing the importance to scientific measurements. Include how measurement has impacted one of:**
  - A culture
  - A nation
  - Trade between countries
  - Scientific discovery

#### Big6™ Skills
- **Task Definition:** How does measurement impact daily life?
- **UI:** view the video
- **Synthesis:** summarize

#### Idaho Science Standards
7.5.1.2.3

#### 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.

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*The Definitive Big6™ Workshop Handbook, page 78*

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Bibliography


