

Lesson Plan Measurement

Secondary Courseware Skill Level 3

Lesson (PLATO):

Curriculum: Foundational Math

Course: Measurement

Module: Measuring length: Metric Units

Objective/Skill Activity (PLATO):

Objective: The learner will use a ruler to measure the length of common objects using metric units to the nearest centimeter.

Content Standard (PLATO/State):

Standard: 6.M.2.1.1

Goal: Select and use appropriate units and tools to make formal measurements in both systems.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
- Check the students understanding of the lesson by utilizing the PLATO Courseware and at the Practice/Application level as a whole group activity.
- Encourage collaborative explorations and discussions using the Math Tools.
- Project the courseware on a screen for classroom demonstrations and discussions.

Classroom Activities (setting, schedule, time allotment, student guided, and independent practice):

- Whole group interaction with the students by utilizing the PLATO courseware and the learning tools provided with in the courseware.
- Use the courseware as a vehicle for individual support within a problem-solving classroom.
- Encourage peer-tutoring by assigning pairs of learners to work through a tutorial and practice together.

Extension Activity (Teacher):

- Offline activity will be provided as a follow-up activity
- Develop Journal prompts that encourage the learner to further extend their mathematical knowledge and make connections
- Assign individual lessons to small groups; have each group teach the lesson content to the whole group

Closure Activity (Teacher):

Review the materials presented through the PLATO Courseware and check the students understanding of the concepts taught

Assessment Strategy (PLATO/Teacher):

- PLATO Mastery test will be completed by each student and passed with a score of 80% or better.
- Use course level assessments as pre-tests to prescribe modules that target skill gaps.
- Use mastery tests as pre-tests to allow learners to “test out” of particular modules.
- Use printed-out journal exercises and offline activities as part of a portfolio-based assessment plan.

Follow-up/Comments:

Students not passing the mastery test will be required to repeat the tutorial and supporting materials before taking the test again

Lesson Plan Measurement

Secondary Courseware Skill Level 3

Lesson (PLATO):

Curriculum: Foundational Math

Course: Measurement

Module: Measuring Length: Customary Units

Objective/Skill Activity (PLATO):

Objective: The learner will use a ruler to measure the length of common objects using customary units to the nearest inch.

Content Standard (PLATO/State):

Standard: 6.M.2.1.1

Goal: Select and use appropriate units and tools to make formal measurements in both systems.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
- Check the students understanding of the lesson by utilizing the PLATO Courseware and at the Practice/Application level as a whole group activity.
- Encourage collaborative explorations and discussions using the Math Tools.
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Classroom Activities (setting, schedule, time allotment, student guided, and independent practice):

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Review the materials presented through the PLATO Courseware and check the students understanding of the concepts taught

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Follow-up/Comments:

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Lesson Plan Measurement

Secondary Courseware Skill Level 4

Lesson (PLATO):

Curriculum: Foundational Math
Course: Measurement
Module: Telling Time to the Minute

Objective/Skill Activity (PLATO):

Objective: Given a model of a clock with a specified time recorded, the learner will record a reading to the minute in either 24-hour or AM/PM format.

Content Standard (PLATO/State):

Standard: 4.M.2.1.3

Goal: Tell time to the nearest minute using digital and analog clocks.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
- Check the students understanding of the lesson by utilizing the PLATO Courseware and at the Practice/Application level as a whole group activity.
- Encourage collaborative explorations and discussions using the Math Tools.

- Project the courseware on a screen for classroom demonstrations and discussions.

Classroom Activities (setting, schedule, time allotment, student guided, and independent practice):

- Whole group interaction with the students by utilizing the PLATO courseware and the learning tools provided with in the courseware.
- Use the courseware as a vehicle for individual support within a problem-solving classroom.
- Encourage peer-tutoring by assigning pairs of learners to work through a tutorial and practice together.

Extension Activity (Teacher):

- Offline activity will be provided as a follow-up activity
- Develop Journal prompts that encourage the learner to further extend their mathematical knowledge and make connections
- Assign individual lessons to small groups; have each group teach the lesson content to the whole group

Closure Activity (Teacher):

Review the materials presented through the PLATO Courseware and check the students understanding of the concepts taught

Assessment Strategy (PLATO/Teacher):

- PLATO Mastery test will be completed by each student and passed with a score of 80% or better.
- Use course level assessments as pre-tests to prescribe modules that target skill gaps.
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Follow-up/Comments:

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Lesson Plan Measurement

Secondary Courseware Skill Level 3

Lesson (PLATO):

Curriculum: Foundational Math
 Course: Measurement
 Module: Measuring Temperature: Fahrenheit

Objective/Skill Activity (PLATO):

Objective: The learner will use a Fahrenheit thermometer to read temperature.

Content Standard (PLATO/State):

Standard: 5.M.2.1.1

Goal: Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
- Check the students understanding of the lesson by utilizing the PLATO Courseware and at the Practice/Application level as a whole group activity.
- Encourage collaborative explorations and discussions using the Math Tools.
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Extension Activity (Teacher):

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Closure Activity (Teacher):

Review the materials presented through the PLATO Courseware and check the students understanding of the concepts taught

Assessment Strategy (PLATO/Teacher):

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- Use course level assessments as pre-tests to prescribe modules that target skill gaps.
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Follow-up/Comments:

Students not passing the mastery test will be required to repeat the tutorial and supporting materials before taking the test again

Lesson (PLATO):

Curriculum: Foundational Math

Course: Measurement

Module: Measuring Temperature: Celsius

Objective/Skill Activity (PLATO):

Objective: The learner will use a Celsius thermometer to read temperature.

Content Standard (PLATO/State):

Standard: 5.M.2.1.1

Goal: Select and use appropriate units and tools to make formal measurements of length, temperature, weight, and volume (capacity) in both systems.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
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Follow-up/Comments:

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Lesson Plan Measurement

Secondary Courseware Skill Level 4

Lesson (PLATO):

Curriculum: Foundational Math

Course: Measurement

Module: Solving Measurement Story Problems

Objective/Skill Activity (PLATO):

Objective: The learner will solve problems using addition, subtraction, multiplication, division, fractions, decimals, geometry, and measurement.

Content Standard (PLATO/State):

Standard: 6.M.2.1.2

Goal: Apply estimation of measurement to real-world and content problems using standard measuring devices.

Anticipatory Set (Teacher):

Activity: Teacher will utilize the PLATO Tutorial as the introduction to this lesson

Materials: Computer, Projector, PLATO Courseware, Offline Activity, Smart Tools if available (CPS Chalkboard)

Instructional Strategies (Teacher):

- Go through the tutorial as a whole group introduction to this objective
- Check the students understanding of the lesson by utilizing the PLATO Courseware and at the Practice/Application level as a whole group activity.
- Encourage collaborative explorations and discussions using the Math Tools.
- Project the courseware on a screen for classroom demonstrations and discussions.

Classroom Activities (setting, schedule, time allotment, student guided, and independent practice):

- Whole group interaction with the students by utilizing the PLATO courseware and the learning tools provided with in the courseware.
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- Encourage peer-tutoring by assigning pairs of learners to work through a tutorial and practice together.

Extension Activity (Teacher):

- Offline activity will be provided as a follow-up activity
- Develop Journal prompts that encourage the learner to further extend their mathematical knowledge and make connections
- Assign individual lessons to small groups; have each group teach the lesson content to the whole group

Closure Activity (Teacher):

Review the materials presented through the PLATO Courseware and check the students understanding of the concepts taught

Assessment Strategy (PLATO/Teacher):

- PLATO Mastery test will be completed by each student and passed with a score of 80% or better.
- Use course level assessments as pre-tests to prescribe modules that target skill gaps.
- Use mastery tests as pre-tests to allow learners to “test out” of particular modules.
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Follow-up/Comments:

Students not passing the mastery test will be required to repeat the tutorial and supporting materials before taking the test again