

Lesson Plan (Understanding Whole Numbers 1)

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math

Course: Understanding Whole Numbers 1

Module: Understanding Whole Numbers: 0 through 10

Objective/Skill Activity (PLATO):

Objective: The learners will translate between the numeric form and a model of numbers 0 through 10.

Content Standard (PLATO/State):

Standard: 2.M.1.1.1

Goal: Demonstrate knowledge of our numeration system by counting forward by twos, fives, and tens to a hundred.

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 (Understanding Whole Numbers 1)

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math

Course: Understanding Whole Numbers 1

Module: Greater Than, Less Than, Equal To

Objective/Skill Activity (PLATO):

Objective: The learners will apply the concepts of *greater than*, *less than*, and *equal to* to quantities *less than or equal to 10*

Content Standard (PLATO/State):

Standard: 2.M.3.1.4

Goal: Compare numbers to 999 using the vocabulary words/phrases of less than, greater than, equal to.

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.
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Assessment Strategy (PLATO/Teacher):

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Lesson Plan (Understanding Whole Numbers 1)

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math
Course: Understanding Whole Numbers 1
Module: Ordinal Numbers: First through Tenth

Objective/Skill Activity (PLATO):

Objective: The learners will identify and use ordinal numbers through *tenth*.

Content Standard (PLATO/State):

Standard: 5.M.1.1.1

Goal: read, Write, compare, and order whole numbers through millions and decimal numbers through thousandths.

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):

- 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

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- Use course level assessments as pre-tests to prescribe modules that target skill gaps.
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Lesson Plan (Understanding Whole Numbers 1)

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math

Course: Understanding Whole Numbers 1

Module: Understanding Place Value: Ones and Tens

Objective/Skill Activity (PLATO):

Objective: For numbers 10 through 99, the learner will translate between numeric form, word form, and models (sets of objects).

Content Standard (PLATO/State):

Standard: 5.M.1.1.2

Goal: Identify and apply place value in whole numbers and decimal numbers to thousandths.

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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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.
- 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

Lesson (PLATO):

Curriculum: Foundational Math

Course: Understanding Whole Numbers 1

Module: Comparing Whole Numbers: 10 through 99

Objective/Skill Activity (PLATO):

Objective: Given an incomplete number sentence of the form $x _ y$, where both x and y are in the 10-99 range, the learner will use $>$, $<$, or $=$ to complete the sentence.

Content Standard (PLATO/State):

Standard: 4.M.1.1.1

Goal: Read, write, compare and order whole numbers to 100,000

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.
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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
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Closure Activity (Teacher):

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- 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

Lesson Plan (Understanding Whole Numbers 1)

Secondary Courseware Skill Level 2

Lesson (PLATO):

Curriculum: Foundational Math

Course: Understanding Whole Numbers 1

Module: Understanding Place Value: Hundreds

Objective/Skill Activity (PLATO):

Objective: For numbers 100-999, the learner will translate between numeric form, word form, and models (sets of objects).

Content Standard (PLATO/State):

Standard: 5.M.1.1.2

Goal: Identify and apply place value in whole numbers and decimal numbers to thousandths.

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