

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Numeration Compare I

Objective/Skill Activity (PLATO):

Objective: Compare numbers to millions, Compare numbers and decimals, compare rational numbers

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use a state or local assessment as an alternative placement.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Numeration Order I

Objective/Skill Activity (PLATO):

Objective: Order Numbers to millions, Order numbers & decimals, order rational numbers

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Numeration Place Value H

Objective/Skill Activity (PLATO):

Objective: Identify place value billions, Recognize place value decimals, write in scientific notation

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Number Operation Addition I

Objective/Skill Activity (PLATO):

Objective: Add decimals, Estimate sums, add numbers up to 6-digits

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Number Operation Subtraction I

Objective/Skill Activity (PLATO):

Objective: subtract numbers up to 6-digits, Estimate differences, Subtract decimals

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Number Operation Multiply I

Objective/Skill Activity (PLATO):

Objective: Multiply 1-digit numbers, multiply 2-4 digit numbers, Estimate products, multiply decimals

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Number Operations – Division I

Objective/Skill Activity (PLATO):

Objective: Divide whole numbers, divide decimal by whole number, divide by decimals, Estimate quotients

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Fractions I

Objective/Skill Activity (PLATO):

Objective: Compare and order fractions, add & subtract different fractions, add & subtract mixed numbers, Multiply fractions/mix numbers, divide fractions

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Decimals I

Objective/Skill Activity (PLATO):

Objective: Add & subtract decimals, multiply decimals, divide decimals

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Ratio/Proportion/Percents I

Objective/Skill Activity (PLATO):

Objective: Decimals & Fractions, percents, write ratios, solve rates and proportions, find percents, solve percents, find numbers from percents

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Numeration Round I

Objective/Skill Activity (PLATO):

Objective: Round numbers through millions, Round decimals

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Geometry I

Objective/Skill Activity (PLATO):

Objective: Classify points, lines, angles, Identify geometric shapes, measure angles, locate coordinate points, find the perimeter, circumference, area, identify congruent and similar, find the volume, find the surface area

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Graphs I

Objective/Skill Activity (PLATO):

Objective: Data from graphs

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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

Lesson (PLATO):

Curriculum: Math Expeditions

Course: Math Expeditions I- Philadelphia Archeology

Module: Probability/Statistics I

Objective/Skill Activity (PLATO):

Objective: Range, median, mode & mean, find probability & outcomes

Content Standard (PLATO/State):

Standard:

Goal:

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):

Use PLATO Math Expeditions to strengthen core proficiency math skills.

Promote problem-solving strategies using the help menus.

Use the online math manipulatives for small or whole-group instruction.

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

Extension Activity (Teacher):

Use the companion worksheets as a supplement to a courseware module.

Assign selected modules in Math Expeditions to reinforce skills for the advanced learner.

Use the companion worksheets in small groups for problem-solving strategies.

Closure Activity (Teacher):

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

Assessment Strategy (PLATO/Teacher):

Generate reports to track and measure the learner's progress.

Use the PLATO Math Expeditions Companion Worksheets as a pretest.

Follow-up/Comments:

Discuss the report data with the learner to determine next steps.

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