Lesson Plan Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 1

Lesson (PLATO):
Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Adding 0 through 2: Addition Basic Facts
Objective/Skill Activity (PLATO):
Objective: Given an incomplete addition sentence in the form ob a + b = ___, where 0 ≤ a ≤ 2 and 0 ≤ b ≤ 2, the learner will find the sum.

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):

- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Adding 3 through 9: Addition Basic Facts

Objective/Skill Activity (PLATO):

Objective: Given an incomplete addition sentence in the form ob a + b = ___, where 3 ≤ a ≤ 9 and 3 ≤ b ≤ 9, the learner will find the sum.

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):

- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 1

Lesson (PLATO):

Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Adding Two 2-Digit Numbers: Sums Less than 100

Objective/Skill Activity (PLATO):

Objective: The learner will add two 2-digit numbers, with sums les than 100, with and with out regrouping.

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):

- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 3

Lesson (PLATO):

Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Adding Three of Four Numbers

Objective/Skill Activity (PLATO):

Objective: The learner will add three or four 2-digit or 3-digit numbers, with and with out regrouping.

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):

- **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 (PLATO):
Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Subtraction Basic Facts
Objective/Skill Activity (PLATO):
Objective: Given an incomplete subtraction sentence of the form a-b=__, where the associated sentence b + ___= a, corresponds to a basic addition fact, the learner will complete the subtraction sentence.
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):

- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 2

Lesson (PLATO):
Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Subtracting a 1-Digit Number from a 2-Digit Number
Objective/Skill Activity (PLATO):
Objective: The learner will subtract a 1-digit number from a 2-digit number, with or without regrouping.

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):

- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 2

Lesson (PLATO):
Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Subtracting Two 2-digit Numbers
Objective/Skill Activity (PLATO):
Objective: The learner will subtract two 2-digit numbers of up to 2-digits, with or without regrouping.

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):
- **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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- **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 Adding and Subtracting Whole Numbers 1

Secondary Courseware Skill Level 2

Lesson (PLATO):

Curriculum: Foundational Math
Course: Adding and Subtracting Whole Numbers 1
Module: Adding Two 2-digit Numbers: Sums Greater than 99

Objective/Skill Activity (PLATO):

Objective: The learner will add any whole numbers of up to 2-digit, with or with out regrouping.

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):

- **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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