



Word Problems 3-4 Syllabus

Course Goals

1 Solidify Previous Knowledge

Students solidify previous knowledge and practice solving word problems.

2 Learn New Methods for Word Problems

Students are introduced to some new methods for turning word problems into mathematical expressions and solving them.

3 Practice and Create Word Problems

Students create their own word problems and practice solving their own problems and others' problems.

Course Topics

1 Interpreting Language

Students learn methods of interpreting sentences that are used to set up word problems.

2 Word Problem Strategies

Students are introduced to a few different types of strategies for solving word problems. Students have opportunities to practice those strategies throughout the session.

3 Story Problem Writing

Students write stories that involve word problems. Students later present their stories to their peers.

4 Addition and Subtraction

Students learn methods of understanding and completing word problems involving addition and subtraction.

5 Time and Conversion

Students learn methods of understanding and completing word problems involving time or measurement conversion.

6 Multiplication and Division

Students learn methods of understanding and completing word problems involving multiplication and division.

7 Money

Students learn methods of understanding and completing word problems involving money.

8 Fractions

Students learn methods of understanding and completing word problems involving fractions.

9 Shapes and Geometry

Students learn methods of understanding and completing word problems involving shapes and geometry.

10 Patterns

Students learn methods of understanding and completing word problems involving patterns.

Course Schedule

Day 1

Introduction and Icebreaker

Students are introduced to the teacher and to each other and play a couple of quick games. The instructor also briefly reviews classroom rules.

65 Short Mysteries

Students complete activities involving word problems.

Math Course Activity

Students prepare their own word problems after some preparation.

Diagnostic

Students take the diagnostic assessment to determine their placement within the course curriculum.

Day 2

65 Short Mysteries

Students complete activities involving word problems.

Interpreting Language

Students learn to interpret different types of words that are often found in word problems.

Create Word Wall

Students create a word wall in the classroom to help them keep track of the many different types of words that often trigger different types of mathematical operations.

How To Solve

Students use the "How to Solve" ebooks to practice word problem solving

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Day 3

65 Short Mysteries

Students complete activities involving word problems.

Introduction to Word Problem Solving Strategies

Students are introduced to the multiple methods for setting up and solving word problems.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Comic Strip Math

Students practice setting up and solving word problems.

Day 4

65 Short Mysteries

Students complete activities involving word problems.

Stump the Teacher Project

Students work together to try to create their own difficult word problem to stump their teacher or classmates.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Comic Strip Math

Students practice setting up and solving word problems.

Day 5**65 Short Mysteries**

Students complete activities involving word problems.

Poster Project Day

Students complete the poster project activity to gain additional practice creating word problems.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Newspaper Activity

Students use information and words they find in the newspaper to create their own word problems.

Day 6**65 Short Mysteries**

Students complete activities involving word problems.

Story Writing Project

Students write stories that have word problem aspects to them.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Day 7**65 Short Mysteries**

Students complete activities involving word problems.

Present Stories

Students present the stories that they have written to the rest of the class.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Day 8**65 Short Mysteries**

Students complete activities involving word problems.

Reading and Listening

Students use the 225 Fantastic Facts book to practice reading and listening to word problems.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Day 9

65 Short Mysteries

Students complete activities involving word problems.

Comparing Word Problems to Problem Solving

Students make a distinction between completing word problems and problem solving.

180 Think-Aloud Problems

Students complete practice word problems based on their performance in class.

Day 10

Take Final Assessment

Students have an opportunity to show the growth and improvements they have made over the course of the session by taking the final assessment to see which topics they have improved on and which topics they still need to review more.

Poster Project Presentation

Students present their poster project to their classmates and instructors.

225 Fantastic Facts

Students use the 225 Fantastic Facts book to reinforce word problem methods.

65 Short Mysteries

Students complete activities involving word problems.

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