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Create a lesson plan for Highschool on order of operations. Include an introduction, lesson outline, questioning, assessment, differentiation and plenary. Include links to some video and worksheet resources.

Introduction:

Today we will be learning about order of operations in mathematics. This is an important concept as it helps us to know the sequence of which mathematical operations are performed when.

Lesson Outline:

1. Start with a discussion of the order of operations and explain each step using background knowledge (PEMDAS/BEDMAS/GEMS).
2. Provide real world examples to show how each step is used (e.g. cooking recipes, directions).
3. Go over some practice worksheets in class and have students work out problems together in groups or pairs.
4. Show a video tutorial on order of operations to provide a visual of the operations in action (e.g. Khan Academy or YouTube):

https://www.youtube.com/watch?v=o_CgV4j4IG4

5. Have students complete some online practice activities/quizzes to help consolidate their understanding of the concept (e.g. Math-Drills).

Questioning:

Throughout the lesson you should use regular formative assessment to assess student understanding. Provide questions that can be used to check student understanding throughout the lesson.

Assessment:

At the end of the lesson the students should complete an assessment task that assesses their understanding of order of operations and their ability to apply it to

problem solving.

Differentiation:

Differentiation is important in this lesson to ensure that all students can access the learning. Ensure that there is a range of activities available of different difficulty levels depending on the student's ability.

Plenary:

At the end of the lesson review the main learning outcomes of the lesson and provide a summary of what was covered to ensure that the students can recall the main points and apply them to their own work.

Resources:

Worksheets:

- https://www.math-drills.com/order_of_operations.php

Video Tutorial:

- https://www.youtube.com/watch?v=o_CgV4j4IG4