

Algebra Nation

WebQuest Description: Welcome to Algebra Nation my math learners. This WebQuest will assist you in understanding what algebraic expressions are, as well as how to evaluate algebraic expressions. You will also receive practice questions to aid with your understanding. I assure you that this experience will be an exciting one. Come on! Let's explore together.

Grade Level: 9-12

Curriculum: Math

Keywords: terms, variables, constants, coefficient, expression, substitution

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Introduction

In the past, you have evaluated numerical expressions by using the order of operations. However, now you are going to be introduced to algebraic expressions. Throughout your journey in this process, you will discover more information about this concept. Come on let's move right into it! Proceed to the tasks page.

Tasks

Now learners, in order to complete the process of learning how to evaluate algebraic expressions, you are required to perform several duties. They are as follow: Describe algebraic expressions. Identify the steps in evaluating algebraic expressions. Apply the steps in evaluating algebraic expressions. (Group activity)

Process

Provided in the attachment section, are links that will aid with completing your tasks. Each link gives detailed information on specific concepts you need to know.

Task 1: Describe algebraic expressions. You will click the link with the description, audio recording on algebraic expressions. You will listen to the audio recording and record the notes in your notebook as you go along. You will listen keenly to the terms associated with algebraic expressions, that is, the parts of an algebraic expression. After listening to the audio recording, you will now click on the link with the description, Parts of an expression. You will read through the information and officially record key information. These documents provide you with information on the description of algebraic expressions.

Task 2: Identify the steps in evaluating algebraic expressions. You will locate the file with the description, "Sub me in". This file will open into a powerpoint activity that will help you to figure out the steps involved when evaluating algebraic expressions. While doing the activity, make a note of the steps you took to complete the activity. After you have completed the powerpoint activity, you will now click on the link with the description, Evaluating expressions. This site will provide you with the steps in evaluating algebraic expressions. You will record these steps in your notepads.

Task 3: Apply the steps in evaluating algebraic expressions. After you have identified the steps in evaluating algebraic expressions, you will now apply these steps. You will place yourselves in four groups. Each group will choose their leader. The leader will be the one responsible for dividing the tasks among the members of the group and will see to it that the tasks are completed. According to the group you're in, that's the question your group will complete. You will view this activity from the link provided below, in the attachment section, named Group Activity. Go the evaluation page and read through the rubric. This indicates the requirements you need to meet in completing task 3.

Evaluation

You have a total of eight minutes (8 mins) to complete the task. Take a look at the rubric below and ensure that you meet the requirements.

Category and Score	Excellent (5marks)	Acceptable (3 marks)	Minimal (1 mark)		Score
Accuracy	Correct answer following all the steps.	Correct answer but missing some of the steps.	Wrong answer, all the steps are missing.		
Timeframe	First group to complete task within the time limit.	Following groups to complete task within the time limit.	Group/s that complete the task exceeding the time limit.		
Cooperation	All the members did their assigned tasks cooperatively.	Some members did not cooperate in the activity.	Few members did the activity.		

