EaD Comprehensive Lesson Plans

| or <u>0248043888</u> | | | or 🕥 | 0248043888 | | |
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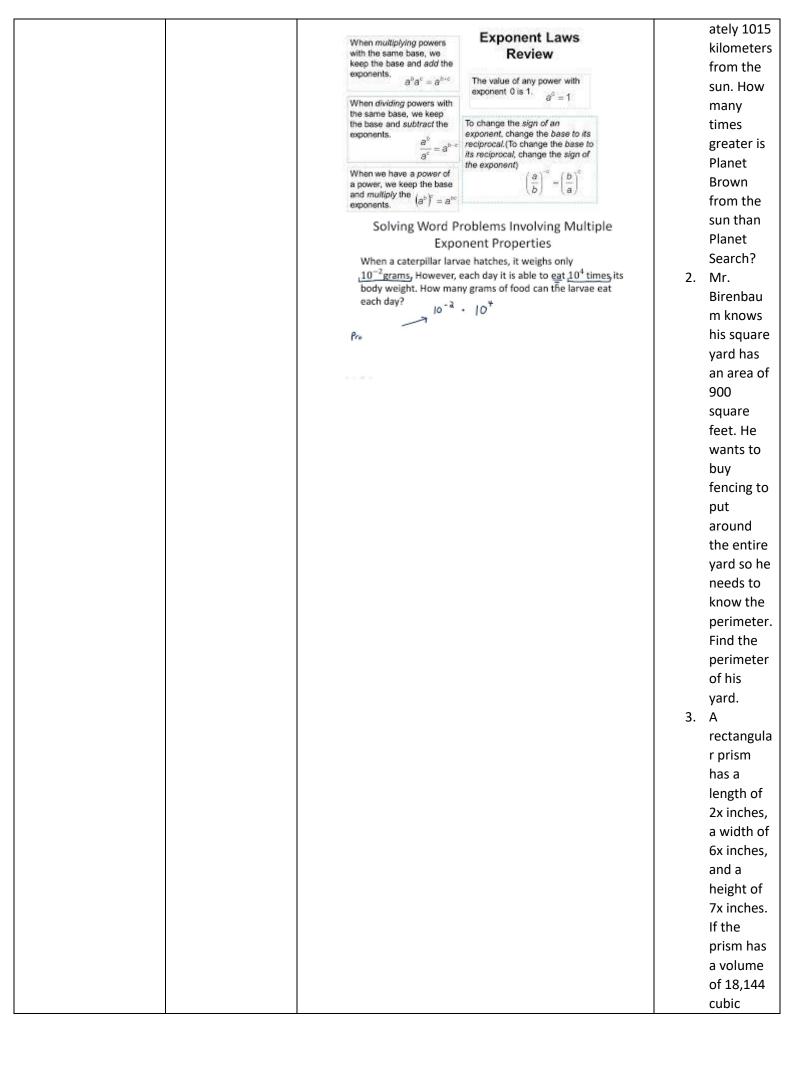
Strand: Number Sub-Strand: Number Operations

https://www.TeachersAvenue.net https://TrendingGhana.net BASIC 7

WEEKLY LESSON PLAN – WEEK 5

| | B7.1.2.3 Demonstrat | e understanding and t | the use | of powers of na | tural numb | ers in | solving problems. |
|----------------------------------|--|--|----------|---|------------|---|------------------------|
| Content Standard: | | | | | | | |
| Indicator (s) | B7.1.2.3.1 Illustrate with examples the meaning of repeated factors using counting objects such as bottle tops or bundle sticks. | | | Performance Problems. | Indicator: | Learn | ers can solve word |
| | B7.1.2.3.2 Express a given number as a product of a given number or numbers, as well as, in the form of a power or two such numbers as product of powers | | | | | | |
| | B7.1.2.3.3 Show that the value of any natural number with zero as its exponent or index is 1 and use it to solve problems. | | | | | | |
| Week Ending | 11-10-2024 | | | | | | |
| Class | B.S.7 | Class Size: | | Dur | ation: | | |
| Subject | Mathematics | | | | | 1 | |
| Reference | Mathematics Curricu | lum, Teachers Resou | irce Pac | ck, Learners Res | ource Pacl | k, Text | book. |
| Teaching / Learning Resources | Pictures, number chat, bottle tops, bundle of sticks | | Со | Core ompetencies: • Look and think a things differently different perspec • Ability to serve g members effective | | differently and from nt perspective to serve group | |
| DAY/DATE | PHASE 1 : STARTER | PHASE 2: MAI | N | | | | PHASE 3: REFLECTION |
| TUESDAY | Discuss the meaning of a Power of a number with the Learners. | Power of a number. 2. Assist Learners to explain repeated factors. | | | | Through questions and answers, conclude the lesson. | |
| | | Repeated Factors; | | | | | |
| | | A factor is repeated if it has multiplicity greater than 1. For each non-repeated factor in the denominator, follow the process for linear factors. If k is the multiplicity of the repeated factor, write k rational expressions, each of which has that factor raised to a different power in the denominator. | | | | | |
| | | exponent or power 2 base number The power of a num | 7 | = 32 (because) ys how many tir | olution! | 21 | |
| | | number in a multip | | | | | |

| | | Exponents or Indices. For example, 8^2 could be called "8 to the power 2" or "8 to the second power", or simply "8 squared" | |
|----------|--|---|---|
| THURSDAY | Through questions and answers, review Learners knowledge on the previous lesson. | Assist Learners to express a given number as a product of a given number or numbers. Learners brainstorm to calculate the product of powers. Discuss how to calculate the product of numbers by multiplying the powers. Laws of Exponents Multiplying Powers with same Base Multiplying Powers with same Base Multiplying Powers with same Base (a/b) m × (a/b) n = (a/b) m+n Multiplying Powers The rule: (-2) ³ (-3) ³ (-2) ³ (-4) ³ (-2) ³ (-6) ³ (-2) ³ (-7) ³ (-2) ³ (-8) ³ (-1) ³ (-2) ³ (-9) ³ (-1) ³ (-2) ³ (-1) ³ (-2) ³ (-2) ³ (-1) ³ (-2) | Reflect on how to find the product of numbers by multiplying the Powers. |
| FRIDAY | Learners brainstorm to explain the concept of exponents. | Using a Power Point Presentation, verify why the value of any natural number with exponent zero is 1. Discuss word Problems involving exponents with the Learners. Learners in small groups to discuss and solve word Problems involving exponents. | Summarize the lesson. Exercise; 1. Planet Search is approxim ately 1012 kilometers from the sun. Planet Brown is approxim |



| | inches, find the value of x. |
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Name of Teacher: School: District: