

Name: _____
Algebra 1

Date: _____
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Unit 6: Exponents and Exponential Functions Performance Tasks

Instructions: Choose one performance task. Write all your work on a separate clean piece of paper and attach it to this page.

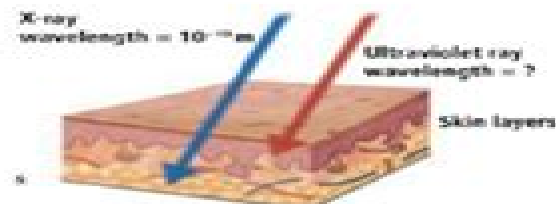
Big Idea: Properties

Just as there are properties that describe how to rewrite expressions involving addition and multiplication, there are properties that describe how to rewrite and simplify exponential expressions.

Performance Task 1

Medical X-rays, with a wavelength of about 10^{-10} m, can penetrate completely through your skin.

- Ultraviolet rays, which cause sun burn by penetrating only the top level of skin, have a wavelength about 1000 times the wavelength of an X-ray. Find the wavelength of ultraviolet rays. Show your work.
- The wavelengths of visible light are between 3.8×10^{-7} m and 7.6×10^{-7} m. Are these wavelengths longer or shorter than those of ultraviolet rays? Explain.



Big Idea: Equivalence

One way to represent numbers is in scientific notation. This form uses powers of ten to write very large or very small numbers.

Performance Task 2

Write each answer as a power of 2. Show your work and explain your steps.

- Computer capacity is often measured in bits and bytes. A bit is the smallest unit, which is a 1 or 0, in the computer's memory. A byte is 2^3 bits. A megabyte (MB) is 2^{20} bytes. How many bits are in a megabyte?
- A gigabyte (GB) is 2^{30} bytes. How many megabytes are in a gigabyte? How many bits are in a gigabyte?

Big Idea: Functions

A family of exponential functions has equations of the form $y = a \cdot b^x$. They can be used to model exponential growth or decay.

Performance Task 3

On January 1, 2010, Chessville has a population of 50,000 people. Chessville then enters a period of population growth. Its population increases 7% each year. On the same day, Checkersville has a population of 70,000 people. Checkersville starts to experience a population decline. Its population decreases 4% each year. During what year will the population of Chessville first exceed that of Checkersville? Show all your work and explain your steps.

Algebra 1 Unit 6 Performance Task

Sebastian Brünink

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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