Name: _____ Date: ____

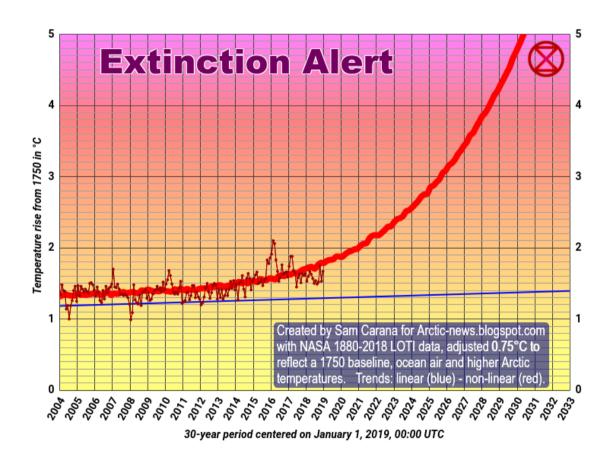
	I can identify the base and exponent of a power
Learning Goal 2.1	and understand the relationship between powers and
	repeated multiplication.

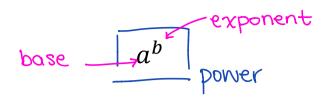
Exponents are used in a lot of mathematical models

· bacterial growth

•

•





Example Evaluate the following <u>POWERS</u> ·

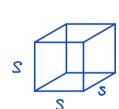
c.
$$3^3$$

d.
$$2^5$$

Some simpler models:

Area

 4 square = 8^{2}



Volume

$$\sqrt{\text{cube}} = \text{SxSxS}$$

Example Consider the order of operations of the following examples.

a.
$$2^4$$

b.
$$(-2)^4$$

c.
$$-(-2)^4$$

d.
$$-2^4$$

 $= -2 \times 2 \times 2 \times 7$

$$= -(-2)(-2)(-2)(-2)$$

$$2^3$$
 VS $(-2)^3$ VS $-2^3 = -2 \times 2 \times 2$

p.55 #1, 2, 4 - 10, 12, 14, 19