

**EXPONENTS
UNIT 5 TARGETS**

SKILL	EXAMPLE	I THINK I WILL GET A...	ACTUAL TEST SCORE
I can expand a power	Expand each of the following: a) x^3 b) $4m^5$ $x \cdot x \cdot x$ $4 \cdot m \cdot m \cdot m \cdot m \cdot m$		
**I can multiply and divide powers with the same base.	Simplify each of the following: a) $5x^4 \cdot 3x^7$ b) $\frac{10a^8}{5a^2}$ $5 \cdot 3 \cdot x^{4+7}$ $\frac{10}{5} a^{8-2}$ $15x^{11}$ $2a^6$		
**I can raise a power to a power.	Simplify each of the following: a) $(a^2)^4$ b) $(2d^5)^3$ $a^{2 \cdot 4} = a^8$ $2^3 d^{5 \cdot 3}$ $8d^{15}$		
I can simplify a zero exponent.	Simplify each of the following: a) $4x^0 + 3$ b) $(5x)^0 = 1$ $4 \cdot 1 + 3$ $4 + 3 = 7$		
I can transfer numbers between scientific notation and standard form.	Change to standard form: a) 6.2×10^4 b) 3.27×10^{-3} $62,000$ 0.00327		
I can interpret scientific notation generated by technology.	Change the following to standard form and then put in order from least to greatest: $1.72E4$ $2.3E3$ $9.82E-4$ $6.7E-1$ $17,200$ $2,300$ 0.000982 0.67	Least ↓ Greatest	$9.82E-4$ $6.7E-1$ $2.3E3$ $1.72E4$
I can multiply and divide numbers in scientific notation.	Simplify each of the following: a) $\frac{(9.3 \times 10^8)}{(3 \times 10^2)}$ b) $(2.4 \times 10^4)(2 \times 10^3)$ 3.1×10^6 4.8×10^7 or or $3,100,000$ $48,000,000$		