\*Learning Target:

\*Critical Content:

Evaluate –

Ex1: Evaluate $3^{5}$

ORDER OF OPERATIONS

P -

E -

M - D - \*

A - S - \*

Ex2: Evaluate $16-8÷2^{2}+14$ Ex2b: $ 20-7+8^{2}-7\*11$

Ex3: a) $4÷2+5(10-6)$ b) $6[32-\left(2+3\right)^{2}]$

c) $\frac{2^{3}-5}{15+9}$ Ex3b) $15-\left[10+\left(3-2\right)^{2}\right]+6$

Ex4: Evaluate $3x^{2}+\left(2y+z^{3}\right)$ if $x=4, y=5, $and $z=3$ Ex4a: Evaluate $a^{2}\left(3b+5\right)÷c$ if $a=2, b=6, c=4$

Ex5: Science on a Sphere (SOS) demonstrates the effects of atmospheric storms, climate changes, and ocean temperature on the environment. The volume of a sphere is four thirds of $π$ multiplied by the radius *r* to the third power.

a) Write an expression that represents the volume of a sphere.

b) Find the volume of the 3-foot radius sphere used for SOS.