Name:
Chemistry

Objective: SWBAT reassess math skills and apply those skills to chemistry related problems.
I. Part One: Basic Skills


## II. Part 2: Applied Math

a. Rearranging Equations

1. Solve the following equation for m

$$
\mathbf{d}=\frac{\mathbf{m}}{\mathbf{V}}
$$

2. Solve the following equation for P

$$
\mathbf{P V}=\mathbf{n r t}
$$

3. Solve the following equation for n $\mathbf{P V}=\mathrm{nrt}$
b. Multi Variable Algebra
4. Given the following, use the equation $\mathbf{P V}=\mathbf{n r t}$ to solve for $\mathbf{P}$

$$
\begin{aligned}
& \mathrm{V}=20 \mathrm{ml} \\
& \mathrm{~N}=5 \mathrm{moles} \\
& \mathrm{R}=.0821 \mathrm{~K} \text { mole/ } \mathrm{L} \text { atm } \\
& \mathrm{T}=298 \mathrm{~K} \\
& \mathrm{P}=?
\end{aligned}
$$

c. Unit Conversions

1. Convert 3.2 feet into inches $(1 \mathrm{ft}=12$ inches $)$
2. Convert 2.4 kilograms into grams $(1 \mathrm{~kg}=1000 \mathrm{~g})$
3. Convert 6 years into seconds
d. Graphing
4. Graph the following data

| $\mathbf{X}$ | $\mathbf{Y}$ |
| :--- | :--- |
| 3 | 6 |
| 2 | 4 |
| 1 | 2 |
| -1 | -2 |

