

# METRIC PARADIGM CHART

Name \_\_\_\_\_ hr \_\_\_\_\_

|      |       |      |      |      |       |       |
|------|-------|------|------|------|-------|-------|
| Kilo | Hecto | Deka | Base | deci | centi | milli |
|------|-------|------|------|------|-------|-------|

In the past we used a chart going left to right to make conversions. To convert into a larger unit you jumped to the left and therefore jumped your decimal to the left. Likewise when converting into smaller units you jumped to the right and jumped your decimal to the right the same amount. The chart below works the same way, it's just that to go "left" you move up, and to go "right" you move down. Another difference is that there are now 6 new prefixes to learn. Finally, the new prefixes jump in a special way—**if you jump into their level you have to make a decimal move of 3** jumps instead of the normal 1.

| SI Prefix | SI Symbol | SI Exponent | English Equivalent (in words) | Decimal Equivalent |
|-----------|-----------|-------------|-------------------------------|--------------------|
|           |           |             |                               |                    |
|           |           |             |                               |                    |
|           |           | $10^3$      |                               |                    |
|           |           | $10^2$      |                               |                    |
|           |           | $10^1$      |                               |                    |
| Base unit |           | $10^0$      |                               |                    |
|           |           | $10^{-1}$   |                               |                    |
|           |           | $10^{-2}$   |                               |                    |
|           |           | $10^{-3}$   |                               |                    |
|           |           |             |                               |                    |
|           |           |             |                               |                    |
|           |           |             |                               |                    |
|           |           |             |                               |                    |

| Concept         | Unit Name (in words) | Unit Symbol (abbreviation) |
|-----------------|----------------------|----------------------------|
| Linear Distance |                      |                            |
| Area            |                      |                            |
| Volume          |                      |                            |
| Mass            |                      |                            |
| Force           |                      |                            |
| Density         |                      |                            |
| Pressure        |                      |                            |
| Temperature     |                      |                            |
| Time            |                      |                            |