## High School Assessment Reference Sheet

1 inch $=2.54$ centimeters
1 meter $=39.37$ inches
1 mile $=5,280$ feet
1 mile $=1,760$ yards
1 mile $=1.609$ kilometers

1 kilometer $=0.62$ mile
1 pound = 16 ounces
1 pound $=0.454$ kilograms
1 kilogram $=2.2$ pounds
1 ton $=2,000$ pounds

1 cup $=8$ fluid ounces
1 pint $=2$ cups
1 quart $=2$ pints
1 gallon = 4 quarts
1 gallon $=3.785$ liters
1 liter $=0.264$ gallons
1 liter $=1000$ cubic centimeters

| Triangle | $A=\frac{1}{2} b h$ |
| :---: | :---: |
| Parallelogram | $A=b h$ |
| Circle | $A=\pi r^{2}$ |
| Circle | $\mathrm{C}=\pi \mathrm{d}$ or $\mathrm{C}=2 \pi \mathrm{r}$ |
| General Prisms | $V=B h$ |
| Cylinder | $V=\pi r^{2} h$ |
| Sphere | $V=\frac{4}{3} \pi r^{3}$ |
| Cone | $V=\frac{1}{3} \pi r^{2} h$ |
| Pyramid | $V=\frac{1}{3} B h$ |


| Pythagorean <br> Theorem | $a^{2}+b^{2}=c^{2}$ |
| :---: | :---: |
| Quadratic Formula | $x=\frac{-b \pm \sqrt{b^{2}-4 a c}}{2 a}$ |
| Arithmetic Sequence | $a_{n}=a_{1}+(n-1) d$ |
| Geometric Sequence | $a_{n}=a_{1} r^{n-1}$ |
| Geometric Series | $\mathrm{S}_{\mathrm{n}=} \frac{\mathrm{a}_{1}-\mathrm{a}_{1} \mathrm{r}^{\mathrm{n}}}{1-\mathrm{r}}$ where $\mathrm{r} \neq 1$ |
| Radians | 1 radian $=\frac{180}{\pi}$ degrees |
| Degrees | 1 degree $=\frac{\pi}{180}$ radians |
| Exponential <br> Growth/Decay | A = $A_{0} e^{k\left(t-t_{0}\right)}+B_{0}$ |

