

Name \_\_\_\_\_

Hour: \_\_\_\_\_

## 2<sup>nd</sup> Semester Final Exam Formula Sheet - Physical Science

### Work and Power:

$$W = F \cdot d \quad d = \frac{W}{F} \quad F = \frac{W}{d}$$

$$P = \frac{W}{t} \quad t = \frac{W}{P} \quad W = t \cdot P$$

$$\text{Weight} = m \cdot g \quad Ep = m \cdot g \cdot h$$

$W$  = work

$F$  = force

$d$  = distance

$P$  = power

$t$  = time

$m$  = mass

$g = 9.8 \text{ m/s}^2$  = acceleration due to gravity

### Waves:

$$v = f \cdot \lambda \quad \lambda = \frac{v}{f} \quad f = \frac{v}{\lambda}$$

$$T = \frac{1}{f} \quad f = \frac{1}{T}$$

$v$  = velocity

$f$  = frequency

$\lambda$  = wavelength

$T$  = period

### Electricity:

$$I = \frac{V}{R} \quad V = I \cdot R \quad R = \frac{V}{I}$$

$$R_{\text{Total}} = R_1 + R_2 + R_3 \dots$$

$$P = I \cdot V \quad V = \frac{P}{I} \quad I = \frac{P}{V}$$

$I$  = current

$V$  = voltage

$R$  = resistance

$P$  = power