**Physics Unit 6/Semester 2 Final: Equation Sheet*****CLASS COPY***

**Physical Constants**

*g* = 9.80

**Unit 1 Conversion Factors:**

1 mi = 1609 m

1 in = 2.54 cm

1 hr = 3600 s

1 kg = 2.2 lbs

1 lb = 454 g

1 cm3 = 1 mL

**Unit 2 (Kinematics) Equations:**

Linear Motion:

Free Fall Motion:

**Unit 3 (Vectors and Projectiles) Equations:**

Vector Addition:

Projectile Motion:

**Unit 4 (Forces and Newton’s Laws) Equations:**

Vertical Motion:

**Unit 5 (Dynamics) Equations:**

Momentum and Impulse:

Energy:

Work and Power:

**Unit 6 (Waves) Equations:**

Mechanical Waves:

Sound Waves:

Standing Waves:

Light Waves: