

Science 9 **Name:** _____
Newton's Worksheet #2 **Speed**

1. The equation for speed is: $S = \frac{\text{distance}}{\text{time}}$
2. A car traveling at 45 Km/hr will travel 135 Km in how many hours?

3. A car travels 10 Km in 30 minutes. What is the car's speed in Km/hr?

4. How many miles will light travel in 0.50 seconds if light's speed is 186,000 miles/sec?

5. Earth revolves about the sun at an average distance of 150,000,000 Km. If the speed of light is 300,000 Km/sec, how many seconds does it take for light from the sun to reach the earth?
How many minutes is this?

6. An α -particle emitted during radioactive decay travels 4.8 mm in 0.02 seconds. What is its speed in mm/sec? What is its speed in meters/sec?