

Name: _____

Class Period: _____

Physics: Unit Conversions

1. Calculate how many seconds are in one year. Assume a year has 365 days.
2. A category 3 hurricane has sustained winds with speeds of 130 miles per hour. What would this speed be in m/s?
3. If a plane can fly 55.5 m/s, what is its velocity in km/h?

Physics: Average Velocity and Average Acceleration Practice Problems

4. How far can a cyclist travel in 2.5 hours along a straight road if her average velocity is 18 km/h? Give your answer first in km and then in m.
5. A skater goes from a standstill to a velocity of 6.7 m/s in 12 seconds. What is the average acceleration of the skater?
6. During a race, a sprinter's velocity increases from 5.0 m/s to 7.5 m/s over a period of 1.25s. What is the sprinter's average acceleration during this period?