

Student Name: _____

Date: _____

Period #: _____

Unit 1: Quiz 3

Physics Vocabulary & Physical Quantities of Interest

1. Identify the following quantities as either a **Vector** or **Scalar**? **Explain**
 - a. The current in the Potomac River

 - b. The cost of a homecoming ticket.

 - c. The initial flight path for a plane travelling from Dulles International Airport to Chicago O'Hara.

 - d. The number of students at Park View High School

2. Identify the following quantities as either a **Vector** or **Scalar**? **Explain**
 - a. The velocity of an automobile.

 - b. The speed of an automobile.

 - c. How long it takes to do a physics lab.

 - d. The force required to push your friend off a boat dock into the water.

 - e. The acceleration of your friend once you push them off the dock.

3. Which of the following is a physical quantity that has both magnitude and direction?
- Vector
 - Scalar
 - Resultant
 - Reference frame
4. Identify the following quantities as scalar or vector: the mass of an object, the number of leaves on a tree, wind velocity.
- vector, scalar, scalar
 - scalar, scalar, vector
 - scalar, vector, scalar
 - vector, scalar, vector
5. Identify the following quantities as scalar or vector: the speed of a snail, the time it takes to run a mile, the acceleration experienced when in free-fall
- vector, scalar, scalar
 - scalar, scalar, vector
 - vector, scalar, vector
 - scalar, vector, vector
6. _____ is an example of a scalar quantity
- Velocity
 - Force
 - Speed
 - Acceleration
7. _____ is an example of a vector quantity
- Time
 - Velocity
 - Volume
 - Density