**PS Unit 7Notes Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Motion**

|  |  |
| --- | --- |
| **Time** | |
| **Definition:** | **Units:** |
|  |  |

Complete one time conversion below:

|  |  |
| --- | --- |
| **Distance** | |
| **Definition:** | **Units:** |
|  |  |

Complete one distance conversion below:

|  |  |  |
| --- | --- | --- |
| **Speed** | | |
| **Definition:** | **Equation:** | **Units:** |
|  |  |  |

Write the speed triangle below:

**Sample Speed Calculation:**

A football field is about 100 m long. If it takes a person 20 seconds to run its length, how fast (what speed) were they running?

|  |  |  |
| --- | --- | --- |
| Givens: | | |
| Equation: | Substitution: | Answer with unit: |

Why do we create graphs in science class?



How do we find speed on a graph?

How do you calculate slope?

|  |  |  |
| --- | --- | --- |
| **Acceleration** | | |
| **Definition:** | **Equation:** | **Units:** |
| Speed (m/s)  Time (s) |  |  |

**Sample Acceleration Calculation:**

A car goes from 0 to 100 km/hr in 10 seconds. What is its acceleration?

|  |  |  |
| --- | --- | --- |
| Givens: | | |
| Equation: | Substitution: | Answer with unit: |

How do we find acceleration on a graph?

What do each of these graphs tell us about acceleration?