

Individual Unit Learning Plan (ILP) Score Sheet

Unit Physics 2: Speed, Velocity, and Acceleration

Name	
Date/Class Period	


Objective:

- 8.6B Differentiate between speed, velocity, and acceleration


Instructions:

You will use this tic-tac-toe board to review, identify, and explain the concepts of speed, velocity, and acceleration.

Activities all students MUST complete three activities:

	Activity	Points Earned	Points Possible

Assessment (completed by ALL students):

	Activity	Points Earned	Points Possible
	Concept Mapping Sheet		

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Physics 2 Unit Tic-Tac-Toe

Directions: Choose 3 activities that form a line: horizontally, vertically, or diagonally. **When you are done with an activity, see Mrs. Arceneaux for a stamp.** Each should take no more than 10-15 minutes.

<p><u>Domino Vocab (Table 1)</u> Match each BOLD vocabulary word with the correct synonym or definition.</p> <p>Take a picture of the finished product with your phone and take it to Mrs. A (with your tic-tac-toe board) to get a stamp.</p> <p>25 Points</p>	<p><u>Zombie Worksheet (Table 2)</u> <i>Take this worksheet back to your desk.</i> Complete the speed, velocity, and acceleration worksheet. Make sure to write in the correct answers and show your work! <u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 Points</p>	<p><u>Egg Drop Demo</u> <i>Do this activity with a classmate.</i> Complete the worksheet. You will drop the egg with a parachute and the unprotected egg and determine: speed, velocity, and acceleration. <u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 Points</p>
<p><u>Cut & Glue Worksheet (Table 2)</u> <i>Take this worksheet back to your desk.</i> Solve each problem in the work box. Then cut out the appropriate answer and glue in the correct box. Please throw away your remaining trash.</p> <p><u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 points</p>	<p><u>Balloon Race Demo</u> <i>Do this activity with a classmate.</i> Blow up a balloon and twist the end. While holding onto the end, tape the balloon to the straw. One of you hold the balloon and the straw and move to one side. The other will time how long it takes for the balloon to get to the other side once you let it go. Do three trials and fill in the worksheet as you go. <u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 points</p>	<p><u>Vocabulary Matching (Table 3)</u> Sort the pictures into the following categories of speed, velocity, and acceleration.</p> <p>Take a picture of the finished product with your phone and take it to Mrs. A (with your tic-tac-toe board) to get a stamp.</p> <p>25 points</p>
<p><u>Virtual Race Car Challenge</u> Go to a computer station. Choose 3 of the 5 cars in the simulation by dragging them to the start line. Make note of their color, average speed and time values in the worksheet. Use $d=v*t$ to determine the distance travelled. Follow the directions on the worksheet. <u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 points</p>	<p><u>Triangle Matching (Table 4)</u> Finish the calculation on the side of the triangle and match it up with the side of another triangle which contains the correct answer. You may need to use your notes to find the correct formula.</p> <p>Take a picture of the finished product with your phone and take it to Mrs. A (with your tic-tac-toe board) to get a stamp.</p> <p>25 points</p>	<p><u>S,V,A Worksheet (Table 2)</u> <i>Take this worksheet back to your desk.</i> Complete the speed, velocity, and acceleration worksheet. Read the scenario and then graph it on the graph paper. Next, calculate the average speed. You may need to use your notes to find the correct formula.</p> <p><u>Staple the finished worksheet to your tic-tac-toe board.</u></p> <p>25 points</p>