Name_____Date_____Hour_____

Physical Science: Velocity and Momentum Webquest

Use the following website to review the concepts of speed and velocity. Take notes, write down any information that you find important to help you remember the concepts of speed and velocity.

http://www.ducksters.com/science/physics/speed_and_velocity.php

Notes:

Now take the 10 Question quiz at the bottom of the page. When you are finished, record your score here. _____.

Now use this website to learn a little more about momentum, when you are finished with the questions, take the quiz at the bottom of the page. http://www.ducksters.com/science/physics/momentum.php

1. What is momentum? _____
   _____
   _____

2. What unit(s) do we use to measure momentum?_____

3. Why is momentum considered a vector quantity? _____
   _____
   _____

4. Give some examples of collisions that may occur in nature. _____
   _____
   _____
   _____

5. What does the law of momentum tell us? _____
   _____
   _____

6. Read the example given about the red and blue ball. How did the authors of the website get the resulting momentum, why is would the balls still be traveling west? _____
   _____
   _____

7. What do you think would happen if two objects moving in opposite directions with the same momentum were to collide? _____
   _____
   _____

8. Why do we use "p" to stand for momentum?_____
   _____
   _____

Now take the 10 Question quiz at the bottom of the page. When you are finished, record your score here. _____.

Final Assessment Activity

Write your own example of a problem in which we have to calculate the velocity of an object. You many choose the object, but your distance and time measurements should be realistic. Show how you would solve your problem as well.

Write your won example of a problem in which we have to calculate the momentum of an object. You may choose the object, but your mass and velocity measurements should be realistic. Show how you would solve your problem as well.