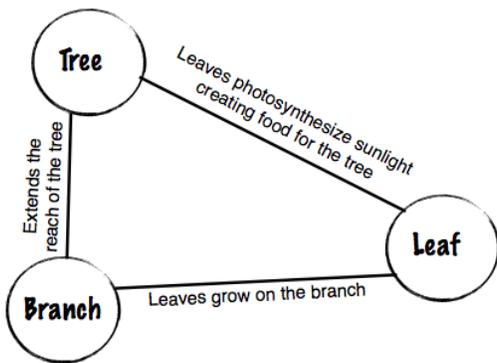


Name: _____ Date: _____

Vocabulary

In the space below, create a web demonstrating the relationships between each of the following vocabulary words: motion, velocity, distance, acceleration and speed. If you are having trouble describing one of the words, think about what it means in the Playground Physics app and describe why it is important that way.

Example:



Let's Play Catch!

Read through your old description of playing catch and remember what it feels like to play catch. Sometimes the way things appear to us and the physics behind them seem like two different things. Think about the patterns you have observed using the Playground Physics app and what it has allowed you to see about the motion of the ball and the following questions:

- When is the ball moving the fastest?
- When is the ball moving the slowest?
- When is the ball going up?
- When is the ball going down?
- If you throw the ball harder or lighter, does it change the movement of the ball?
- What is the shape the ball's path takes through the air?
- What do you feel as you release the ball and catch it again?

In the space below, rewrite the narrative from your original paper adding in all of the evidence and patterns you now have to describe the motion of the ball as you played catch. Use all of the vocabulary words on the first page in your new narrative.

In the space below, reflect on the process of investigating the question “How can I describe the motion of the ball when I play catch with a friend?” What have you learned about the process of practicing science from this investigation?