

Name _____ Period _____

Activity 2.1

What Will We Do?

We will observe four devices to figure out what forces are (1) acting between the components and (2) influencing how the apparatus moves.

Data Collection/Observation

Station #1 – Flying Balloon

1. Which components of the apparatus affect its motion? Construct a model of the apparatus that shows these components.

2. What are the forces acting on the components of the apparatus that influence its motion? Add these forces to your model.

3. How does the apparatus work? Write an explanation using your model.

Station #2 – Floating Magnets

1. Which components of the apparatus affect its motion? Construct a model of the apparatus that shows these components.

2. What are the forces acting on the components of the apparatus that influence its motion? Add these forces to your model.

3. How does the apparatus work? Write an explanation using your model.

Station #3 – Air-Powered Car

1. Which components of the apparatus affect its motion? Construct a model of the apparatus that shows these components.

2. What are the forces acting on the components of the apparatus that influence its motion? Add these forces to your model.

3. How does the apparatus work? Write an explanation using your model.

Station #4 – Magnetic Cannon

1. Which components of the apparatus affect its motion? Construct a model of the apparatus that shows these components.

2. What are the forces acting on the components of the apparatus that influence its motion? Add these forces to your model.

3. How does the apparatus work? Write an explanation using your model.