



4. Investigate the relationship between the forces on the puck and the black arrows. *Observations are easiest if you do NOT push "start". Simply move the charges with the mouse.*

Observations. (Consider cause and effect, differences with positive/negative puck, differences with positive/negative charge, other ideas).

Write a hypothesis about the possible relationships.

What evidence from the simulation supports your hypothesis?

### C. Investigate Energy

*Use a positive puck. Place one or two red or blue charges on the screen. Click "start".*

Recall what you know about kinetic and potential energy, energy transfers, and energy conservation.

5. Write two applicable questions about energy, energy transfers, and the items represented in the simulation. Questions should be testable with the simulation.

a.

b.

c. Trade your questions with another person (or group) and evaluate their questions according to the criteria. Then, print and sign your name in the evaluator's box.

Why are their questions relevant (or not)?

How can the simulation be used to test them?

7. Modify your own questions if needed, then experiment with the simulation to answer your own questions about energy and energy transfers. Record observations, conclusions, and evidence below.