**PreAP Physics – Electric Field Hockey PhET Lab**

Today, you will use Electric Field Hockey PhET Lab to investigate how point charges interact.

**Beginning Observations**

1) Open the Electric Field Hockey PhET simulation. What can you change about the simulation?

2) What happens when you put a positive charge near the hockey puck?

3) What happens when you put a negative charge by the hockey puck?

4) What happens when you change the mass?

**Level 1**

5) *Master level 1 by getting the black hockey puck into the goal. Draw what your screen looks like in the space below.*

|  |  |
| --- | --- |
| *Draw what your screen looks like in the space* | *Briefly explain your strategy* |

**Level 2**

6) *Master level 2 by getting the black hockey puck into the goal. Draw what your screen looks like in the space below.*

|  |  |
| --- | --- |
| *Draw what your screen looks like in the space* | *Briefly explain your strategy* |

7) Did you have to modify your strategy from Level 1? Were you able to use all the same charges or did you have to use different types of charges?

8) How did you use your knowledge of Coulomb’s Law to master Levels 1 and 2?