

**Names:** \_\_\_\_\_

## ***Interactive Physics Websites***

1. **Design a Roller Coaster** – <http://www.learner.org/exhibits/parkphysics/index.html>

Design your roller coaster to achieve an overall “thumbs up” rating for Fun and Safety. List below what the individual designs would have to be for

1) Height of the First Hill =

2) Shape of the First Hill =

3) The Exit Path =

4) Height of the Second Hill =

5) The Loop =

2. **The Science of Hockey** - <http://www.exploratorium.edu/hockey/>

Answer 3 of the 7 questions found on the bottom of the page – Write the questions and answers below.

1)

2)

3)

3. **Skateboard Science** - <http://www.exploratorium.edu/skateboarding/>

1) What is an ollie?

2) Describe the physics of another trick

4. **Fear of Physics** – <http://www.fearofphysics.com/index1.html>

Choose and “play with” at least 4 of the topics presented and write down 3 things you have learned from this website.

1)

2)

3)

5. **The Experiments of Galileo** - <http://www.pbs.org/wgbh/nova/pisa/galileo.html>

Perform the experiments of Galileo - [Falling Objects](#) | [Projectiles](#) | [Inclined Planes](#) | [Pendulums](#)

1. Which object falls fastest?

2. What happens to the balls if one is dropped and one is pushed?

3. What did Galileo discover about inclined planes

4. Which statement is true about pendulums?

## 6. The Physics of Baseball

<http://www.exploratorium.edu/baseball/index.html>

1) Play the Fastball Reaction Time Exhibit Game

2) How do you throw a curveball?

**When you are finished you may explore these other physics games:**

**Projectile Motion Game – play the game:**

<http://www.interactivestuff.org/sums4fun/projectile.html>

**Forces Game -** Play the "Forces" Game [http://www.bbc.co.uk/bitesize/ks2/science/physical\\_processes/](http://www.bbc.co.uk/bitesize/ks2/science/physical_processes/)

**Junkyard Wars-** Design your own junkyard war dragster!!!!

<http://school.discoveryeducation.com/networks/junkyardwars/fun.html>

**Play with the Simulations / Projectile Motion & Energy Skate Park!**

<http://phet.colorado.edu/new/index.php>