

Names _____

Rubric for an Amusement Park Ride

<i>Front of Poster</i>	Points Earned	Points Worth
Name and Location of Ride		1
Drawing of the ride		2
Label one way you use centripetal force		1
Label 3 points of acceleration		3
Label 2 instances of inertia		2
Label 3 instances of unbalanced forces		3
<i>Back of poster</i>		
Explain how and where your ride uses g forces		2
Identify where, how and why your ride uses Newton's 1st Law		3
Identify where, how and why your ride uses Newton's 2nd Law		3
Identify where, how and why your ride uses Newton's 3rd Law		3
<i>Car Design</i>		
Using upcycled materials, design a car for your passengers to ride in		2
Write a paragraph explaining how your car takes into consideration: -Friction (can be air resistance) -Mass -One other physics principal of your choice		3
Explain how your car uses one or more of Newton's Laws		2
<i>Total Points</i>		30

7.PS.4 Investigate Newton's first law of motion (Law of Inertia) and how different forces (gravity, friction, push and pull) affect the velocity of an object.

7.PS.5 Investigate Newton's second law of motion to show the relationship among force, mass and acceleration.

7.PS.6 Investigate Newton's third law of motion to show the relationship between action and reaction forces.

7.PS.7 Construct a device that uses one or more of Newton's laws of motion. Explain how motion, acceleration, force, and mass are affecting the device.