

Science 8 Motion Test Outline

Name: _____

Part A – Matching (Must know the following definitions)

Direction, Distance, Time, Motion, Force, Pull, Push, Inertia, Friction, Speed, Velocity, Gravity, Acceleration

Part 2- Short Response

- 1) Know the difference between contact & noncontact force with 1 example for each.
- 2) Given an example of a hypothesis, theory & law be able to label them (Apply knowledge)
- 3) What happens to gravity if mass changes?
- 4) How does distance between objects affect gravity?
- 5) If you increase mass, then what happens to acceleration?
- 6) If you decrease mass, then what happens to acceleration?
- 7) Given an example of a scenario can you determine which of Newton's laws are being illustrated
 - a. Soccer ball being kicked will continue to roll (only stops because of friction or net) -1st
 - b. Object(ball on table) will stay still unless someone moves it - 1st
 - c. Deals with force & acceleration -2nd
 - i. If you hit a ball with more force it will travel farther
 - d. When you jump off a boat onto dock and the boat moves away from you - 3rd
 - e. If you let go of a balloon and it pushes up as air blows out – 3rd
 - f. If you one ball bumps into another ball on a pool table and it moves it – 3rd