

Forces & Motion “I Can Statements” Unit Outline (2/15)

I. Forces

- A. **contact forces:** I can name and describe two common forces that must be “in contact”.

- B. **forces acting at a distance:** I can name and define two common forces that can act “at a distance”. I can explain that “acting at a distance” means having a “field”. I can also describe what factors determine the strength of these forces.

- C. I can create and read “force diagrams”. I know how to tell (and show) the direction forces act on objects and also I can tell if one force is stronger than another.

II. Newton’s Laws of Motion

- A. **First law:** I can name Newton’s First Law of Motion. I can also explain what this law says about objects that are and are not moving.

- B. **Second law:** I can name Newton’s Second Law of Motion. I can express the law as a formula and as a full statement. I can also explain how each factor of the law affects the two other factors.

- C. **Third law:** I can state Newton’s Third Law of Motion. I can also give some common examples of this law.