P1.2 Pre-Test

1. Which is the best definition of a force? [1] Tick (✓) **one** box.

(a) A push or pull ☐ (b) A push, pull or twist that can change the shape, speed or direction of an object ☐

(c) A pull that keeps objects on the ground ☐

2. Which is the best definition of a non-contact force? [1] Tick ( ) ✓ **one** box.

(a) A force that can act over a distance ☐ (b) A force that acts when objects are in direct contact with each other ☐

(c) A force that causes objects to repel each other ☐

3. Which of these is a non-contact force? [1]
Tick ( ) ✓ **one** box.

(a) Friction ☐ (b) Magnetism ☐ (c) Tension ☐

4. What is the definition of resultant force? [1]
Tick ( ) ✓ **one** box.

(a) Forces acting in opposite directions that cancel each other out ☐

(b) The net force acting on an object ☐ (c) The biggest force acting on an object ☐

5. What can be said about the forces acting on an object if the resultant force is 0 N? [1] Tick ( ) □ **one** box.

(a) The forces are unbalanced ☐ (b) The forces are balanced

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(c) There must be no forces acting

6. Which of these motions could **not** be used to describe an object which had a resultant force of 0 N acting on it? [1] Tick ( ) **one** box.

(a)It would be speeding up (b)It would be stationary

(c)It would be moving at a constant speed

7. Which statement is **incorrect**? [1] Tick ( ) **one** box.

(a)Gravity is a non-contact force (b)Gravity is the force that attracts objects to the Earth (c)Gravity on the Moon is greater than gravity on the Earth

8. Which of these is the largest? [1] Tick ( ) **one** box.

(a) The Earth (b) The Sun (c) The Moon

9. Approximately how long does it take the Earth to complete one full orbit around the sun? [1] Tick ( ) **one** box.

(a) One day (b) One year

(c) One season

10. Which of these planets is further from the Sun than Earth? [1] Tick ( ) **one** box.

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(a) Venus ☐ (b) Mercury

(c) Mars ☐ ☐

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