

1. DESCRIBE THE MOTION OF AN OBJECT BASED ON ITS POSITION, DIRECTION, AND SPEED AS IT RELATES TO ANOTHER OBJECT.

- Motion
- Reference point
- Position
- □ Direction
- □ Speed
- Velocity
- □ Acceleration

2. HOW DO YOU GRAPHICALLY REPRESENT THE MOTION OF AN OBJECT? SHOW HOW THE MOTION OF AN OBJECT CHANGES OVER A PERIOD OF TIME.

- Distance
- □ Time
- □ Slope

3. HOW CAN YOU INTERPRET DIFFERENT DISTANCE VERSUS TIME GRAPHS?

- Constant speed
- □ Variable motion

4. HOW DO BALANCED AND UNBALANCED FORCES AFFECT AN OBJECT'S MOTION? DO <u>UNBALANCED</u> FORCES CHANGE AN OBJECT'S MOTION? WHAT TWO EFFECTS DO <u>BALANCED</u> FORCES HAVE ON AN OBJECT'S MOTION? WHAT HAPPENS TO AN OBJECT'S MOTION IF NO FORCES ARE ACTING ON IT?

- Balanced
- Unbalanced
- □ Force
- Net Force
- Inertia
- Mass

5. DOES A FORCE HAVE TO ACT ON AN OBJECT TO CHANGE ITS MOTION?

- □ Gravity
- Friction
- Magnetic
- □ Air Resistance

6. WHAT IS THE RELATIONSHIP BETWEEN POTENTIAL AND KINETIC ENERGY?

- Potential Energy
- □ Kinetic Energy
- Mechanical Energy

7. HOW DOES ENERGY CHANGE FORMS? BE ABLE TO MODEL OR DIAGRAM ENERGY TRANSFORMATIONS.

- Energy
- □ Energy Transformation

8. EXPLAIN THE DIFFERENT WAYS ENERGY APPEARS, TRAVELS, AND CAN BE TRANSFERRED.

- Energy Transfer
- Thermal Energy
- Electrical Energy
- Electromagnetic Energy
- □ Nuclear Energy
- □ Chemical Energy
- Green Energy
- Radiant Energy

9. WHY DO ELECTRICAL CIRCUITS REQUIRE A COMPLETE LOOP TO PASS ELECTRICAL CURRENTS?

- Open Circuit
- □ Closed Circuit
- Parallel Circuit
- □ Series Circuit

10. HOW CAN ENERGY BE TRANSFERRED BETWEEN SYSTEMS THROUGH THE PROCESS OF PUSHING AND PULLING?

- Work
- Power

11. IDENTIFY SIMPLE MACHINES

- □ Simple Machine
- □ Lever
- □ Pulley
- □ Inclined Plane
- □ Screw
- □ Wheel & axle
- □ Wedge
- □ Compound Machine

12. HOW DO SIMPLE MACHINES MAKE WORK EASIER BY CHANGING THE SIZE OR DIRECTION OF A FORCE?

- Mechanical Advantage
- □ Efficiency

13. EXPLAIN THE LAWS OF PHYSICS

- □ Newton's 1st Law (Law of Inertia)
- □ Newton's 2nd Law
- □ Newton's 3rd Law
- □ Constant Acceleration
- □ Law of Universal Gravitation
- □ Law of Energy Conservation
- □ Law of Conservation of Momentum