

**Grade 8 Science  
1<sup>st</sup> QUARTER EXAMINATION**

**Score:**

**Name:** \_\_\_\_\_

**Grade & Section:** \_\_\_\_\_

**Direction:** Choose the letter of the best answer. Write the letter before each number.

1. Which of the following is an example of movement caused by a non-contact force?  
**A.** A foot kicking a soccer ball      **C.** shoes rubbing against the floor  
**B.** Paperclips pulled by a magnet      **D.** Wind pushing against a kite
  2. Which describes a contact force?  
**A.** Paperclips pulled by a magnet      **C.** gravity pulling down objects  
**B.** A floor kicking a soccer ball      **D.** static electricity
  3. A student shoots a basketball. Which non-contact force drags the ball down the basket?  
**A.** friction between the ball and the air      **C.** the student pushing the ball into the air  
**B.** the ball hitting the rim and bounce into the basket      **D.** gravity pulling the ball down
  4. Two classes are playing tug-of-war. If the center of the rope is not moving, what must be true?  
**A.** Both classes are pulling equally.      **C.** The ground is slippery.  
**B.** Both classes have equal mass.      **D.** One class is pulling harder than the other.
  5. A change in position relative to an object's reference point is called  
**A.** motion      **B.** momentum      **C.** inertia      **D.** acceleration
  6. Speed can be determined from the formula:  
**A.** time/distance      **C.** distance/time  
**B.** time/acceleration      **D.** distance x time
  7. The distance covered by a car traveling at a speed of 50 km/h for 5 hours is:  
**A.** 10 miles      **B.** 250 miles      **C.** 55 miles      **D.** 45 miles
  8. A body at rest tends to remain at rest and a body in motion tends to remain in motion unless acted upon by an unbalanced force is stated in the law of \_\_\_\_\_  
**A.** motion      **B.** inertia      **C.** acceleration      **D.** action and reaction
  9. A moving bus comes to a sudden stop and the passengers lurch forward. This is an example of law of:  
**A.** motion      **B.** inertia      **C.** acceleration      **D.** action and reaction
  10. As the force acting on an object decreases, the acceleration of the object  
**A.** increases      **C.** remains the same  
**B.** decreases      **D.** increases, then decreases
  11. As the mass of an object increases, the acceleration of that object  
**A.** increases      **C.** remains the same  
**B.** decreases      **D.** increases, then decreases
  12. The motion of space aircraft is primarily based on the law of \_\_\_\_\_.  
**A.** motion      **B.** inertia      **C.** acceleration      **D.** action and reaction
  13. Work is defined as the product of  
**A.** force and weight      **C.** energy and height  
**B.** force and energy      **D.** force and distance
  14. A ball is lying on the floor. When will the ball move?  
**A.** it will never move      **C.** when a force acts on it  
**B.** when the lights are turned on      **D.** when gravity pulls on it
  15. 2. What must be applied to push or pull an object?  
**A.** a force      **C.** speed      **B.** gravity      **D.** distance
  16. 5. What will happen when a light-weight object and a heavy object run into each other?  
**A.** They bounce away equally.      **C.** The large object bounces backwards.  
**B.** The small object bounces backwards.      **D.** The small object becomes part of the large one.
  17. A moving bicycle has?  
**A.** kinetic energy.      **C.** chemical energy  
**B.** potential energy      **D.** nuclear energy.
  18. What type of energy transformation is represented in the diagram on the right?  
**A.** chemical energy to sound energy      **C.** sound energy to electric energy  
**B.** sound energy to chemical energy      **D.** electric energy to sound energy
  19. The best example of an object that possesses potential energy is?  
**A.** a falling rock      **B.** a piece of coal      **C.** a rolling rock      **D.** a man running
  20. What type of energy is contained in gasoline?  
**A.** potential      **B.** mechanical      **C.** kinetic      **D.** chemical
- Questions 21 and 22 refer to the following situation:**  
 Angie stretches a large rubber band and then releases one of its ends. The rubber band snaps back to its original shape.
21. When the rubber band was stretched, it had:  
**A.** kinetic energy      **B.** potential energy      **C.** motion energy      **D.** no energy
  22. As the rubber band was snapping back, it had:  
**A.** kinetic energy      **B.** potential energy      **C.** motion energy      **D.** no energy



# Grade 8 Posttest Science Answers

**Terry C. Jones**



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