



## Nawabegh Al-Riyadh International School

Creating a learning environment that leads to success, excellence, glory and prosperity under the Islamic values

Subject : Science	Final Revision Sheets
Semester 1	Grade : 5
Week :	Name :

### Q. (1) Fill in the blanks.

1. Every substance has its own unique **heat** capacity.
2. **speed** is how fast an objects position changes with time at any given moment.
3. **momentum** is the product of mass multiplied by velocity.
4. The strength of an acid is known as **acidity**.
5. A change in objects position over time **motion**.
6. A **force** is any push or pull from object to another.
7. The use of force to move an object a certain distance or change an object is **work**.
8. Energy stored in the position or the structure of an object **potential energy**.
9. If a material conducts heat easily, it is a good thermal **conductor**.



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10. The three ways heat is transferred are conduction, convection and **radiation**.
11. Forces that act together on an object without changing its motion **balanced force**.
12. **heat** is the most common waste product from the work.

### Q. (2) Put (t) or (f).

1. A group of objects from which a position or motion is measured is known as frame of reference. ( **T** )
2. Newtons second law states  $F = m + a$ . ( **F** )
3. A substance that tastes sour and makes blue litmus paper turns red is base. ( **F** )
4. Change in velocity overtime of an object is known as chemical energy. ( **F** )
5. A gravity is the force that opposes the motion of one object moving past another. ( **F** )
6. The energy of a moving object is kinetic energy. ( **T** )
7. The strength of a base is known as ions. ( **F** )



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8. Materials with low heat capacity change temperature quickly. ( **T** )
9. If a substance forms ion in water is known as Ph scale. ( **F** )
10. The transfer of heat through electromagnetic rays is radiation. ( **T** )
11. If a material conducts heat poorly, it's a good thermal insulator. ( **T** )

### **Q. (3) Answer the following.**

1. Write different forms of energy.

potential energy- kinetic energy- heat energy- sound energy  
chemical energy- light energy- magnetic energy -electrical energy

2. State the law of conservation of energy.

Energy cannot be created or destroyed it only changes form

3. State Newton's third law of motion.

All forces occur in pairs and these two forces are equal in strength and opposite in direction



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4. What are the three ways heat is transferred?

conduction

convection

radiation

5. what is potential energy?

energy stored in the position or the structure of an object

**Q.(4) Define the following.**

Base:

Substance that tastes bitter and makes litmus paper turns blue

Thermal conductivity:

The ability of a material to transfer heat

Ions

Electrically charged atom or molecule with unequal numbers of protons and electrons



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### Action force

\_the push of the first object on the second \_\_\_\_\_

### Conduction

\_the passing of heat through a material while the material itself stays in place \_\_\_\_\_

### Work:

\_the use of force to move an object a certain distance or change an object \_\_\_\_\_

### Convection:

\_the flow of heat through liquid or gas caused by hot parts rising and cooler parts sinking



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### **Q. (5) Write a scientific term that describes each sentence.**

reaction force- acid - Newtons second law of motion -conduction-  
acceleration - kinetic energy-action force

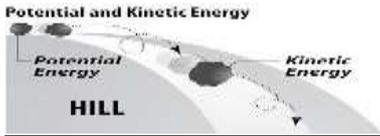
1. is the energy of a moving object. kinetic energy
2. the push of the second object back on the first is called the. reaction force
3. change in velocity overtime of an object. acceleration
4. an acid tastes sour and burns if you touch it and makes blue litmus paper turn red.
5. the passing of heat through a material while the material itself stays in place. conduction
6. the unbalanced force of an object is equal to the mass of an object is multiplied by its acceleration,  $F=ma$ . Newtons second law of motion

### **Q.(6) identify the picture and write its names.**



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Forms of energy



Velocity



acceleration



speed



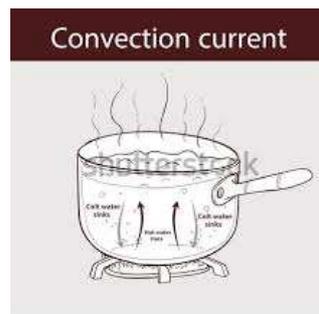
PH scale



Gravity



conduction



convection



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