

## FIFTH GRADE TEST. PABLO SARASATE. HEAT AND LIGHT.

1. Decide whether the following light sources are natural or artificial.

1) fire is



2) lightning are



3) light bulb is



4) torches are



2. Fill in the gaps with the words from the box.

water drops

in straight line

white

300,000

- 1) **SPEED** : The speed of light is Km. per second.
- 2) **DIRECTION** : light travels .
- 3) **COLOURS** : light contains all the colours.
- 4) The rainbow is formed when tiny act like prisms which decompose white light.

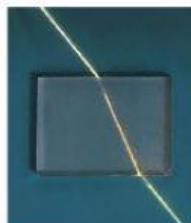
3. Write the properties of materials and light according to the definitions.

1) Materials allow **all light** to pass through them.

- 2) Materials allow only **some light** to pass through them.
- 3) Materials **do not allow any light** to pass through them.

**4. Correct these sentences.**

- a) Coal is black because it **reflects all light**.
- b) Snow is white because it **absorbs all light**.
- c) We can only see the colours of the light objects **reflect**.
- d) **Reflection** occurs because light changes its direction when it passes from one substance or medium to another.



e) This is:



f) This is:

- g) **Refraction** occurs because light hits a smooth surface and the image is reflected in that surface. (Mirrors).

**5. Complete these sentences.**

Heat is the action of adding **energy** to a substance.

Heat is always transmitted from **warm substances to cooler substances**.

The flow of thermal energy is called

We use to keep our body temperature in winter and our homes warm. We wear woollen jumpers to avoid the loss of our body thermal energy.

are the best conductors of heat.

6. write the effects of thermal energy: expansion, evaporation and melting.

- a) It takes place when a solid increases its thermal energy and becomes a liquid.
- b) It occurs when a liquid increases its thermal energy and becomes a gas.
- c) It takes place if a substance increases its thermal energy and as a consequence it increases its volume too.