Natural Science Unit 5: Heat and Light

Revision Worksheet

1. **Complete the sentence with the correct word. Drag the words you will find in the box.**

mirror	refraction	thermal conductor	direction	thermal insulator

a) _____ is a material that transfers thermal energy easily.

b) _____ doesn't transfer thermal energy easily.

c) The mirror reflects the light, causing the light to change _____ .

d) You can see the reflection of the object in the _____.

e) When light passes through some transparent substances, like water, the light energy changes direction slightly. This process is called _____.

2. **Complete the definitions about light phenomena. Write the words in the correct gap.**

translucent	Sun	opaque	transparent

a) Some glass is _____; it doesn't block light.

b) Some objects are _____; they block light completely.

c) Some objects or materials are _____; some light passes through them.

d) We use light from the _____ to give energy to solar panels.

3. **Complete the text. Drag the words you will find in the box.**

television	switched	light energy	night	Sun

We use _____ in many ways. We use light from the _____ to see and to produce electrical energy with solar panels. We use light energy to see at _____. Light energy enables us to see things on _____ and computer screens. Lights also indicate when a machine is _____ on.

4. Choose the correct answer.

How does light energy travel?

a) In straight lines b) In curved lines

What happens to the particles of a solid object when it receives heat energy?

a) They vibrate slower. b) They vibrate faster.

What does cause rainbows to appear?

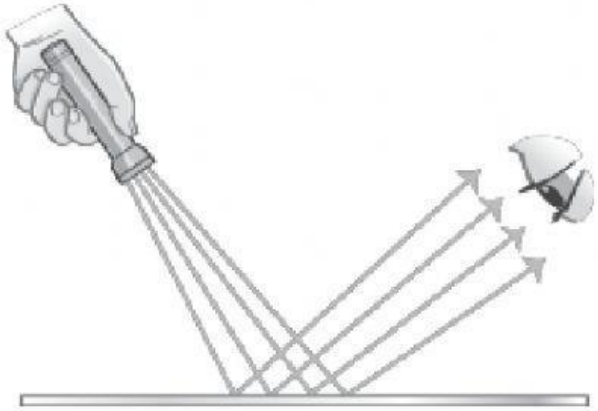
a) Light from the Sun is reflected by clouds.

b) Light from the Sun is refracted by water.

What objects do produce shadows?

a) Opaque objects. b) Transparent objects.

5. Look at the pictures and write the correct property of light.



_____ _____

6. Complete with the correct word. Drag the words you will find in the box.

Temperature	Thermal energy	Heat

We can't see the _____of an object. But if an object has a high _____, it has a high thermal energy. If we put it in contact with an object with less thermal energy, this energy will be transferred from the object with a high temperature in the form of _____.

7. Match the changes of state and its corresponding example.

a) Melting	1. water turns into ice cubes in the fridge.
b) Evaporation	2. water vapour condenses in the surface of the car glasses when it's cold outside.
c) Solidification	3. the water in a pan put on fire becomes vapour
d) Condensation	4. An ice cream melts in my hand