

TYPES OF ENERGY

Read carefully:

Kinetic energy: it has to do with **movement**. Kinetic energy is produced through **movement**.

Sources: where do machines take the energy from? for example, why is it possible for a car to **move**? Because gets energy from **petrol** or **batteries**. A sailing boat moves thanks to the energy from the **wind**.



An arrow released from the bow, flying through the air.



An object rolling down a hill.



Muscles moving.



A car moving.

Electrical energy: makes machines **work**. Electricity can be made using:

- burning fossil fuels
- solar energy
- wind energy
- hydropower (water energy)
- in nuclear power stations



Light energy: - Natural source: the Sun, stars, lightnings...
- Artificial source: light bulbs, torches, candles



Thermal energy: flows from a warm object to a cooler object.
This energy has to do with **heating**.

- The **Sun** is our main source of thermal energy.
- Fossil fuels are used to warm our homes and cook our food: **coal, oil** and **gas**.



Sound energy: made by vibrations.



Chemical energy: there has to be a chemical reaction.



Answer the questions:

1. How is kinetic energy produced?

1. It is produced through _____

2. Where does a car get energy from?

2. It takes energy from _____ or _____

3. Where does a sailing boat get energy from?

3. It gets energy from the _____

4. What does electrical energy do?

4. It makes machines _____

5. Name three artificial light energy sources:

5. I _____, t _____ and c _____

6. Where does a thermal energy flow?

6. It flows from _____

7. What is our main source of thermal energy?

7. The _____

Match (Write down the letter that corresponds):

Kinetic energy _____



Electrical energy _____



Light energy _____

Thermal energy _____



Sound energy _____



Chemical _____



Name the 6 types of energy and place the words in the box that correspond:

chemical reaction / heating / vibrations / torch / hydropower / movement

1.K_____ energy	2.E_____ energy	3.L_____ energy	4.T_____ energy	5.S_____ energy	6.C_____ energy

Complete the sentences:

1. A sailing boat gets its energy from the _____
2. Most of the light energy on Earth comes from the _____
3. We use thermal energy to warm our _____ and cook our _____.
4. Vibrations travel through the air until they reach our _____.
5. Chemical energy is released when a _____ reaction occurs.