WELCOME TO THE ONLINE CLASS

SESSION NO.: 1
CLASS: 5
SUBJECT: SCIENCE
CHAPTER NUMBER: 11
CHAPTER NAME: FORCE AND ENERGY
SUB TOPIC: DIFFERENT FORMS OF ENERGY- LIGHT ENERGY, SOUND ENERGY, ELECTRICAL ENERGY
LAW OF CONSERVATION OF ENERGY

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LEARNING OBJECTIVE

To enable the learner to:

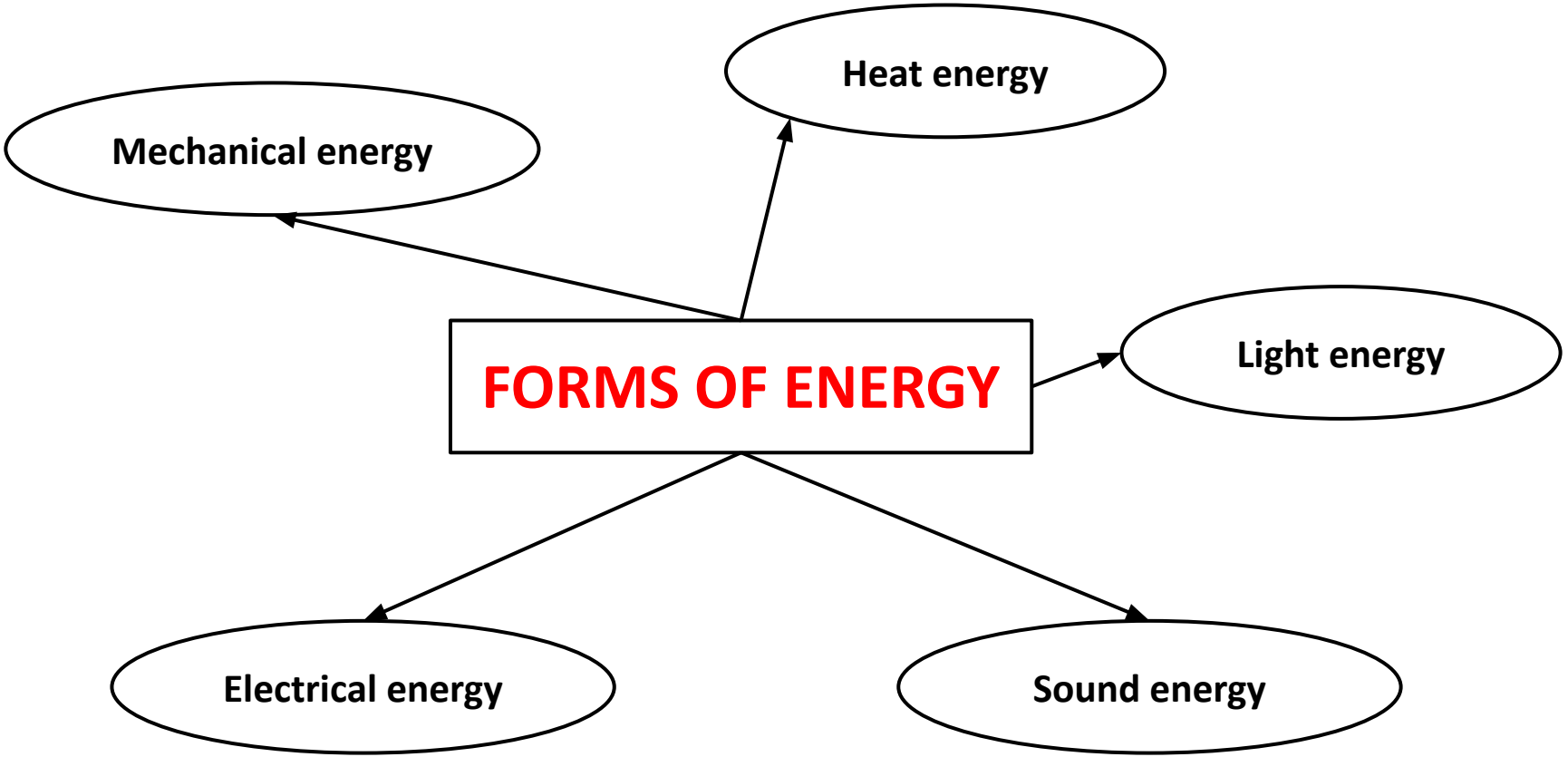
- **understand about energy.**
- **identify the types of energy.**
- **understand the importance of energy in real life.**

LET'S RECAP

- **Name them:**
  - **The energy that we get from the sun.**
  - **The energy from the hot interior of the earth.**
  - **A renewable source of energy.**
- **What do you mean by renewable source of energy?**
- **How is electricity produced from water?**

ENERGY

- **Energy is the ability to do work.**
- **Energy is everywhere in nature: sunlight, water, wind, plants and animals.**



LIGHT ENERGY

- Light is also a form of energy.
- We naturally get light energy from the sun.
- Artificial sources of light energy are bulbs, tube lights, burning candle, etc.

SOUND ENERGY

- Sound is a form of energy.
- It is produced by the vibration of an object.
- Some sources of sound energy are music system, musical instruments, radio, etc.

ELECTRICAL ENERGY

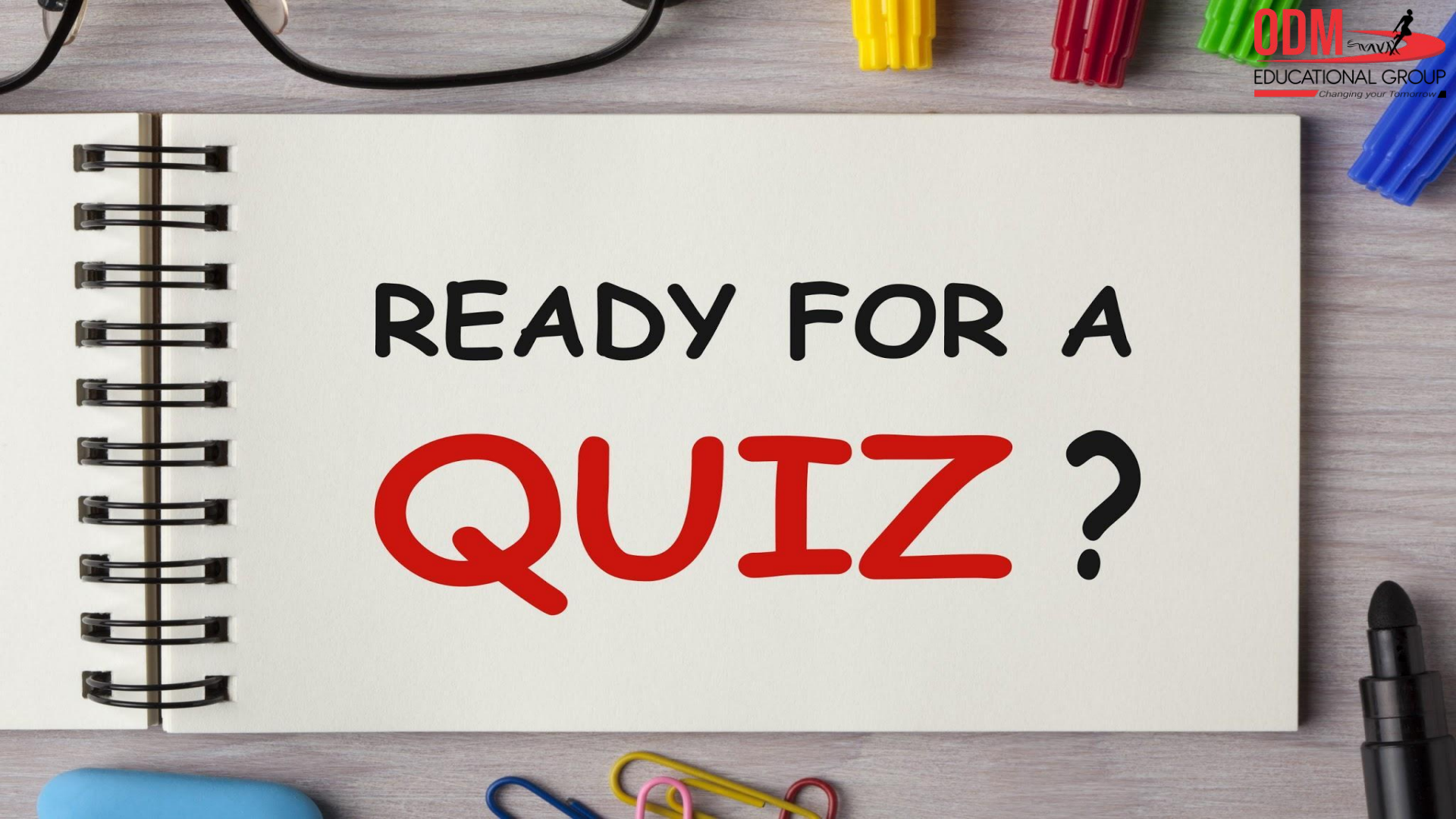
- Electrical energy is the movement of electrical charges.
- electrical charges moving through a wire is called electricity.
- Electricity helps in working of many appliances-like computers, washing machines, television, bulbs, fans, etc.

LAW OF CONSERVATION OF ENERGY

- Energy can neither be created nor destroyed.
- Energy just changes from one form to another.
- The total energy of an object never decreases or increases.

SUMMARY

- We get light energy from various sources like the sun, bulbs, tube lights and burning candle.
- sound is produced by the vibration of an object.
- electrical energy is the energy produced by the movement of electrical charges.
- According to the law of conservation of energy energy can neither be created nor destroyed but it always changes from one kind to another.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QUIZ ?

1. **What is the law of conservation of energy?**

Ans: Energy can neither be created nor destroyed.

2. Which energy is used by washing machines televisions, computers, etc. to run?

Ans: Electrical energy

3. How is sound produced?

Ans: Sound is produced by the vibration of an object.

HOMEWORK

Make a list of different forms of energy and write a use of each.

E. Answer these questions.

1. What is a lever? On what basis are levers classified?

Ans: A lever is a rigid rod arranged in such a manner that it can move freely around a fixed point.

Levers can be classified on the basis of the position of the fulcrum, the load and the effort.

- When the fulcrum is in between the load and the effort, it is a first-class lever.
- When the load is in between the fulcrum and the effort, it is called a second-class lever.
- When the effort is in between the fulcrum and the load, it is a third-class lever.

LEARNING OUTCOME

The learner will be able to:

- **understand about energy.**
- **identify the types of energy.**
- **understand the importance of energy in real life.**

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THANKING YOU

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