Vocabulary Tasks

Exercise 1. Translate sentences into Russian. Make questions to the underlined words.

1. During the day the student will also use some electrical devices working in the laboratory, making use of the telephone, the lift, the tram and so on.

2. Some people are more familiar with the various applications of electricity in their everyday life than they are with its numerous industrial applications.

3. The energy sources of the world decreasing, the scientists must find new sources of energy.

4. Lightning is a discharge of atmospheric electricity.

5. It is quite possible that some day coal and other fuel may be replaced by atomic energy.

Exercise 2.  Make sentences from the words.

1. application, the, the, the, technological, of, electricity, contributes, industrial, progress, to.

2. day, use, every, do, appliances, you, electrical?

3. are, longstanding, of what, applications, electricity?

4. induction, who , motor, invented?

Exercise 3. Insert the words into sentences: invention, property, technological advance, consumption, replace, lightning.

1. The industrial application of the electric current contributes to the ---  .

2. Many years ago a man discovered that many substances have  ---  either attract or repel other ones when rubbed together.

3. It is quite possible that some day coal and other fuel may --- by atomic energy.

4. Scientists’ --- will help people avoid lightning strikes.

5. Some people don’t like to be out during the thunderstorm and  --- .

6. --- of electricity has greatly increased recently.

Прочитайте текст и определите, какой из заголовков соответствует тексту:

The story of the discovery of electricity is connected with the name of Thales, the Greek philosopher. The story goes that one day Thales rubbed a piece of amber against his sleeve and found to his great surprise that it attracted small bits of dried leaves. After further experimenting he concluded that this attractive force was a property that amber alone possessed. He called this characteristic “electricity» because the Greek word for amber was electron.

a. Electricity

b.Thales- the Inventor of Electricity

c. The Discovery of Electricity

d. Amber

**Задание №2**

1. **Прочитайте и переведите текст.**

**Capacitors.**

A capacitor is one of the main elements of a circuit. It is used to store electric energy. A capacitor stores electric energy provided that a voltage source is applied to it.

The main parts of a capacitor are metal plates and insulators. The function of insulators is to isolate the metal plates and in this way to prevent a short.

There are two common types of capacitors in use nowadays: a fixed capacitor and a variable one. The plates of a fixed capacitor cannot be moved; for this reason its capacity does not change. The plates of a variable capacitor move; its capacity changes. The greater the distance between the plates, the less is the capacity of a capacitor. Variable capacitors are commonly used by radiomen; their function is to vary the frequency in the circuit. Fixed capacitors are used in telephone and radio work.

Fixed capacitors have insulators produced of paper, ceramics and other materials; variable capacitors have air insulators. Paper capacitors are commonly used in radio and electronics; their advantage is their high capacity: it may be higher than 1,000 picofarad.

**2. Ответьте на вопросы:**

1. What is a capacitor used for?

2. What are the main parts of a capacitor?

3. What is the function of insulators?

4. What does the capacity of a capacitor depend on?