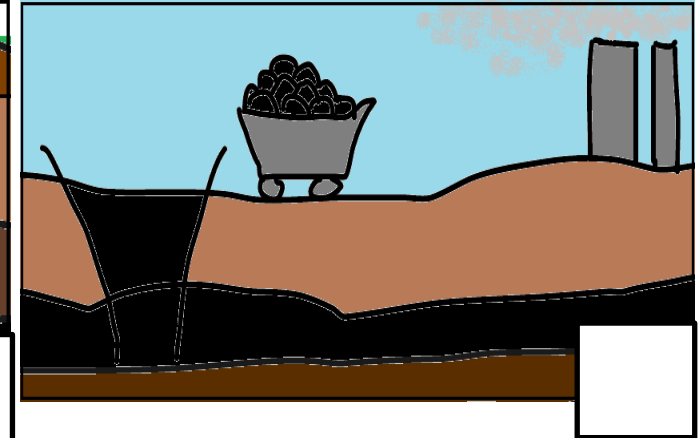
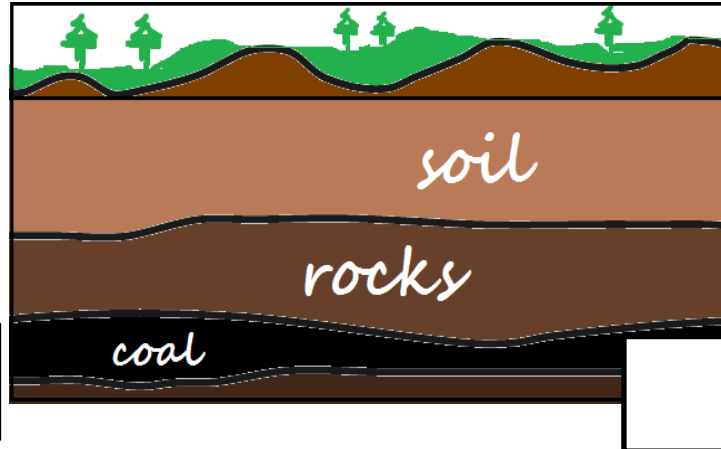
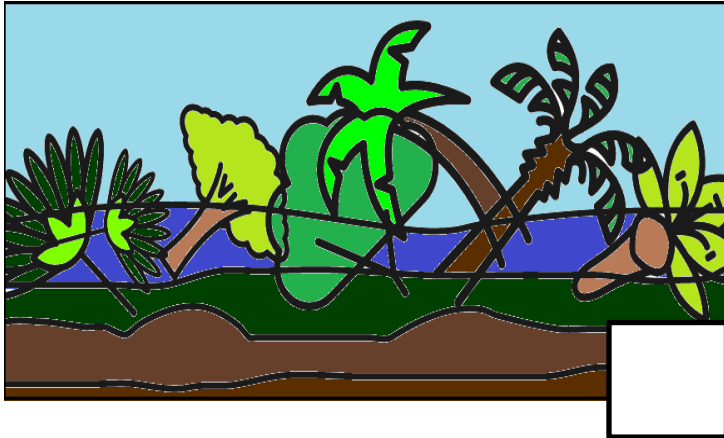


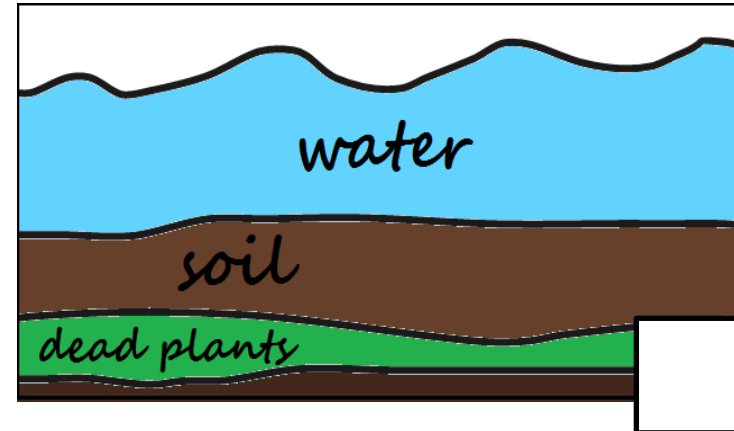
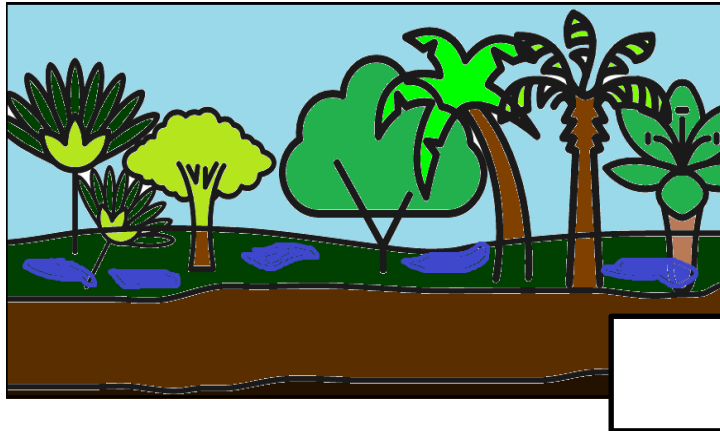
THE HISTORY OF COAL

Put the pictures in the correct order. Then, match the description to each picture to see where coal comes from:



Dead plants were gradually turned into coal – due to high pressures and extreme heat.

PICTURE
NUMBER:



When the giant plants died, they fell into the swamps and started decaying there.

PICTURE
NUMBER:

Now, coal is excavated in mines and transported to power plants around the world.

PICTURE
NUMBER:

Millions of years ago the climate was tropical. That's why giant plants, such as trees and enormous ferns, grew rapidly in swamplands.

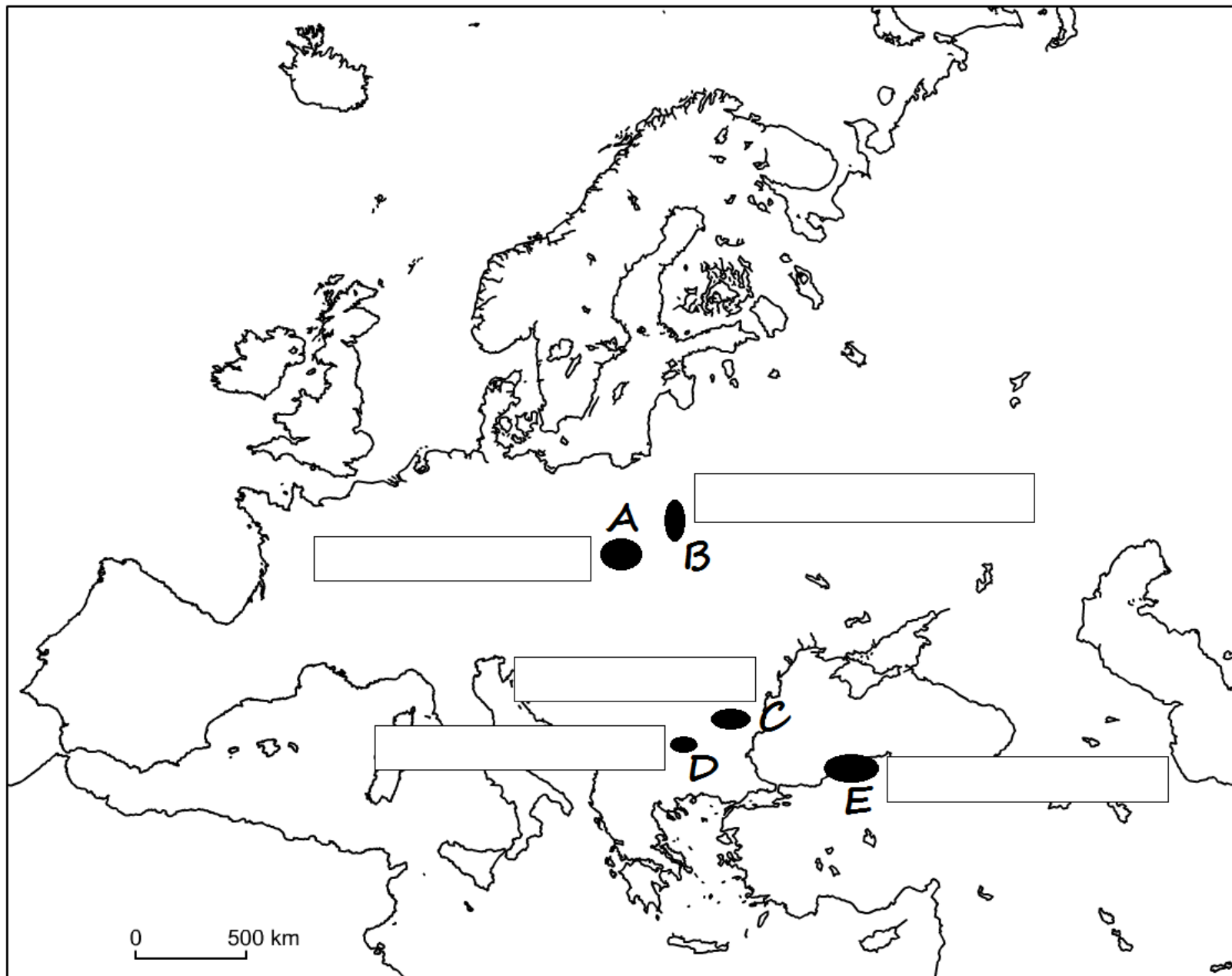
PICTURE
NUMBER:

Plants stayed under the layer of water and soil for long millions of years.

PICTURE
NUMBER:

COAL DEPOSITS IN OUR COUNTRIES

Write the name of each of these coalfields. Then, draw a flag of the partner country on whose territory the coalfield is situated:



Letter	Coalfield	Flag
<input type="text"/>	The Dobrudzha Basin	<input type="text"/>
<input type="text"/>	The Upper - Silesian Basin	<input type="text"/>
<input type="text"/>	The Sofia Basin	<input type="text"/>
<input type="text"/>	The Zonguldak Basin	<input type="text"/>
<input type="text"/>	The Lublin Basin	<input type="text"/>

ADVANTAGES and DISADVANTAGES OF COAL as an energy source

Study these arguments. Decide whether they are an advantage or disadvantage by putting + or – in the boxes:

☐ Coal can be found in many places around the world.

Burning coal produces greenhouse gases. ☐

☐ To excavate coal, special mines must be built.

The work of miners is dangerous and there are many accidents. ☐

Coal is not very expensive. ☐

Burning coal causes air pollution. ☐

☐ Coal is easy to transport.

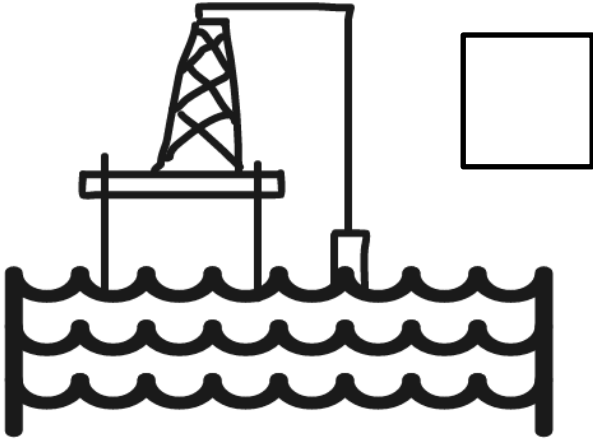
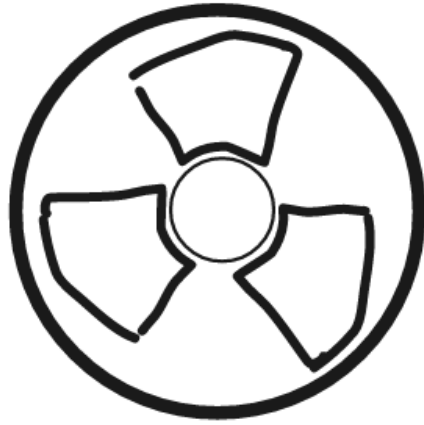
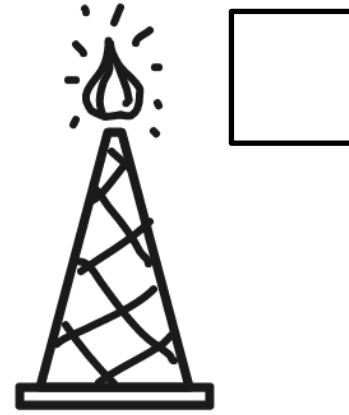
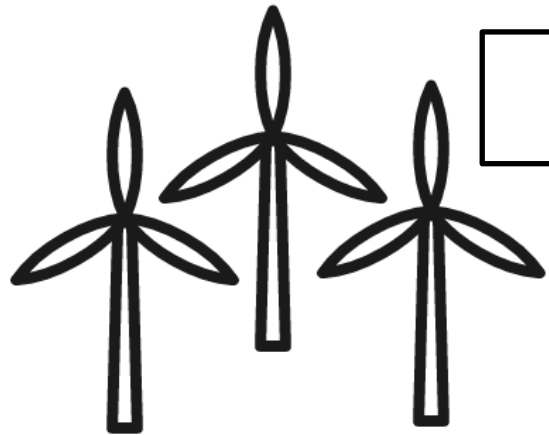
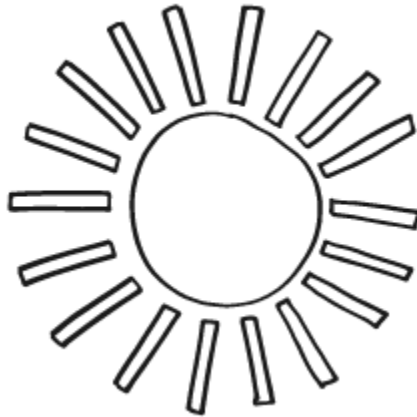
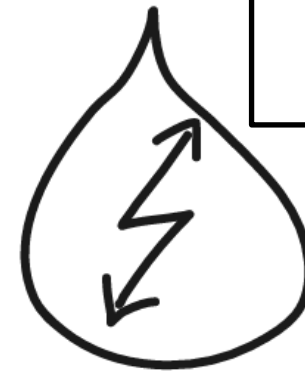
There is enough coal for about 100 more years. ☐

Coal is a non-renewable energy source. ☐

WAYS TO REPLACE COAL as an energy source

There are other sources of energy which can replace coal.

Study these pictures and match them with the names. Then decide if the source is renewable (R) or non-renewable (N):

☐☐☐☐☐☐

NUCLEAR

WIND

NATURAL GAS

SOLAR

OIL

HYDRO-ELECTRIC

R

N

HOW COAL IS USED TO PRODUCE ENERGY

Read about what happens at the coal power station. Put the stages of energy production in the correct order:

The heat from the burning coal turns water into hot steam.

☐

Turbines move giant magnets inside coils of wire.

☐

Coal is burned.

☐

The magnets produce electricity.

☐

Steam expands and moves the turbines.

☐

Steam cools and turns back into water.

☐