

EcoProject: Subjects and tasks

1. Electricity circuit
2. Solar energy: wonderful warm water
3. Research "power eaters"
4. Water power: create a watermill
5. Wind power: car working with windenergy
6. Windmill
7. Floating wing

1. Electricity circuit:

Pupils built an electric circuit after studying a picture. The circuit is not closed. Pupils discover what kind of materials can close the circuit and what does not conduct electricity. They discover that metal materials conduct electricity.

2. Solar energy:

Pupils discover that solar energy can heat water. They line up an umbrella with aluminum foil and put the umbrella into the sunshine. Then a little bag filled with cold water is put in the umbrella and the pupils try to find out at what place in the umbrella the water is heated as fast as possible.

3. Research "power eaters."

"Pupils search for electric tools in the school building. They make an inventory "mini eaters", "eaters" and "super eaters".

4. Water power: Watermill

Pupils built a watermill using a plastic cup, in this they put 4 straws where water can go through. Through pouring water in the top of the cup the mill starts moving.

5. Wind power: a car uses wind power

Pupils built a car using cardboard. By inflating and deflating a little balloon the car starts moving.

6. Wind power: a windmill

Pupils built a windmill using paper and a cylinder. By using a hair dryer they can see how a wind turbine works.

7. Wind power: floating wing

Pupils built a wing using paper, which shows the upward and downward force of streaming air.