Why does a sheep need wool?

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Słowa kluczowe:

environmental adaptation, heat, izolator

DZIEDZINA:

Biology, Physics, Thermodynamics

Cel doświadczenia:

The purpose of the experiment is to show what a thermal insulator is. By means of a woolly jumper as well as three glasses filled with water the participants will check if a jumper gives heat or just keeps it.

Spis materiałów:

- 1. a woolly jumper
- 2. three glasses
- 3. water (warm and cold)

The experiment can be extended with other materials, such as cotton (plant origin), polyester (a synthetic material), silk (animal origin). Instead of a jumper, a pair of woolly socks can be used.

Etapy realizacji:

- 1. Fill one glass with cold water and two with warm water.
- 2. Wrap them at the top with cling film.
- 3. Lay the jumper flat on the table.
- 4. Put the glass with cold water in a sleeve; put one glass with warm water to the other sleeve and leave the other glass with warm water in ambient air.
- 5. After an hour, check temperature in the glasses.

Pytania do doświadczenia:

- 1. Is wool a good thermal insulator?
- 2. Are other materials better insulators?

Opis zjawiska:

Ciekawostki:

- 1. Sheep are excellently adapted to low temperatures. Their health is rather affected by moisture than by cold. Lambs are born in early February when it is freezing cold; the time when lambs are born is called lambing time.
- 2. In deserts there are large variations in temperature between hot days and cold nights. Due to thick hair, camels can keep constant body temperature. This is a form of adaptation of a species to the environment.