

The burning glass

You need:

- a metal plate
- a paper cup
- a metal lid
- a tea candle
- a matchstick
- a basin of water



Procedure

1. Light the tea candle
2. Keep the paper cup with the metal lid.

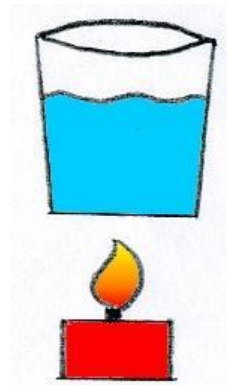
What will happen if you put the paper cup over the tea candle?
Wait a short time. What happens?

3. Use the water basin to extinguish the fire.

A glass of water

You need

- a metal plate
- a paper cup
- a metal lid
- a tea candle
- a matchstick
- a basin of water



Procedure

1. Light the tea candle.
2. Fill in the glass halfway with water.

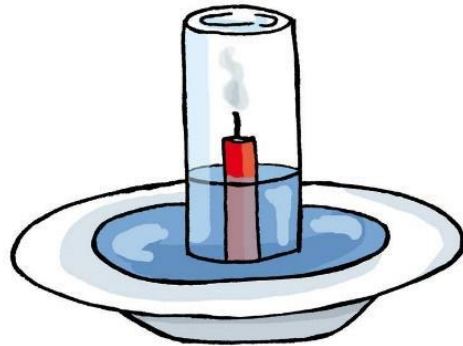
What happens if you keep the paper above the flame?

3. Keep the paper cup with the metal lid above the flame.
4. Observe. What happens?

The candle in the glass

You need:

- a dish
- water
- a glass
- a tea candle
- a matchstick



Procedure

1. Put some water in the dish. Put the tea candle in the dish.
2. Light the candle.
3. Observe carefully.

What happens if you cover the tea candle?
How can you explain it?

The tea candle in the glass 2

You need:

- A metal plate
- Three jars different in size
- Three tea candles
- A matchstick



Procedure

1. Light the candle and observe carefully.
2. What can you see if you cover the tea candle?
3. What happens if you cover the tea candle with jars of different size?
4. What do you observe? Describe!

Extinguish fire

You need:

- metal plate
- paper
- metal pliers
- matchstick
- lid
- watering can
- glass with sand
- glass with water



Procedure

1. Roll the paper into a small ball.
2. Light the paper.
3. Try to extinguish the fire with sand, water or a lid and observe the differences.

What can you see? How can you explain it? What sort of solution is the best?

The invisible fire extinguisher

You need:

- a tea candle
- two glasses
- matchstick
- yeast
- vinegar



Procedure

1. Put a tea candle into a glass and light it.
2. Mix some yeast and some vinegar in a glass.
3. Wait a minute.
4. *Tilt the glass* above: the glass with the tea candle but pay attention: don't let the mixture falling into the glass.

What can you see? How can you explain it?

The double flame

You need:

- a candle
- a glass tube
- a wood clamp
- a metal plate
- a matchstick



Procedure

1. Light the candle.
2. Put the glass tube in the middle of the flame using the wood clamp
3. You can see smoke coming out the glass tube.
4. Wait and try to light the matchstick with the smoke.

What can you see? How can you explain it?

Can iron burn?

You need:

- a metal plate
- iron nail
- pliers
- a matchstick
- gas burner
- fine steel wool
- safety glasses
- a bowl full of water

1. Work in this experiment with the safety glasses! A teacher has to be there.
2. Place the gas burner on the base and light it.
3. Use the pliers to hold the steel nail over the fire.

What is happening? Cool the nail and forceps in water?

What happens if you use the pliers to hold some steel wool over the flame?

Try to explain what you have seen.

The matchstick rocket

You need:

- Matchsticks
- modeling clay
- aluminum foil
- wire



Procedure

1. Roll the head of a matchstick not so tight into aluminum foil.
2. Wrap some wire in the tube on one side.
3. Remove the wire and place this side of the tube in a piece of modeling clay.
4. Heat the head of the match.

What happens? Can you explain that?