



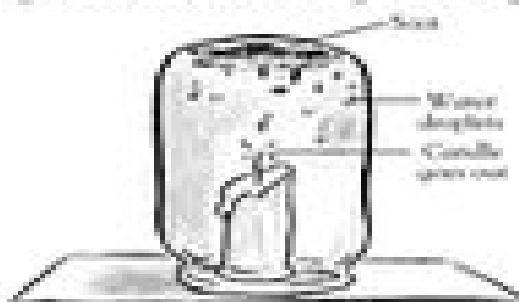
## A burning matter

### Background knowledge

Oxygen from the air is needed for something to burn. Burning is an irreversible process that forms new substances. Some of these substances are solids, such as ash or soot, and some are gases, such as water vapor and carbon dioxide. When paper burns, it produces soot (mostly carbon), water vapor, carbon dioxide, a small amount of other gases, and ash (materials that do not burn).

### Science activity

Look at the drawing. It shows a candle burning inside an upturned jam jar.



What is produced when a candle burns? What is a possible explanation as to why the candle went out?

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### Science investigation

**(1) Take extra care - ask an adult to supervise you.**

Light a candle and place a jar over it. Time how long it takes for the candle to go out. When the flame goes out, let the jar cool down a bit. Carefully lift the jar, keeping the open end facing downward and placing it quickly on a table. Relight the candle. Place the jar over the candle. Does the candle burn now? If so, time how long it burns. Explain your observations.

