# Fire: Keeping safe

This task is about identifying fire hazards, and using what you know about fire to suggest ways to make a situation safer.

If we know what causes fires we are more likely to be able to manage the risk of a fire starting.

For a fire to start, three things have to be present:

- a source of heat
- fuel
- oxygen

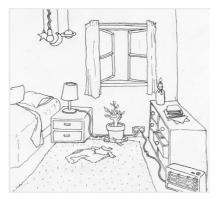
This is often called the fire triangle.



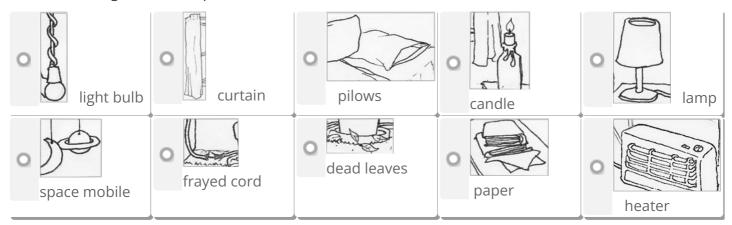


Tick all the things that could provide **fuel** for a fire (they burn easily).

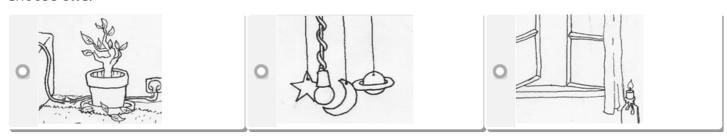




Tick all the things that could provide **heat** to start a fire.



Three places are shown where a fire could easily start in the room. Choose **one**.





Use the fire triangle to explain why this area is a fire hazard.







#### A better answer discusses the An excellent answer also includes A part answer mentions closeness of a fuel to a heat one part of the fire triangle the role of air or oxygen. source. **Examples Examples Examples** The curtain (fuel) is close The curtain (**fuel**) is close enough to • A candle (heat source) enough to the candle's flame the candle's flame (heat source) that might start a fire. (heat source) that it could catch it could catch alight. The open window • The curtain (fuel) could means that there is plenty of oxygen alight. catch fire. to keep the fire burning. • The window is wide open so there is lots of air (oxygen). The space mobile (fuel) could The bulb (heat source) can get The bulb (heat source) has got no catch fire. hot enough to set the shade on it so can set the decoration decoration (fuel) hanging by it (fuel) hanging by it on fire. The open on fire. window lets in air (oxygen), which is needed for the fire to keep burning. Frayed cords sometimes If the frayed electrical cord The frayed electrical cord could spark spark (heat source). sparks (heat source) the dry (heat source). Dead leaves (fuel) are leaves (fuel) nearby could catch very dry and catch fire easily. Oxygen

Use the rubric above to decide how well you answered the question. Tick the box which best describes your answer. (Choose one). If you are not sure, discuss with a friend.

is also needed for fire to burn, and the open window gives a good supply of

this in the room.

fire.

#### Here is your answer:

identified of fire triangle) parts of fire triangle)	0	No parts of fire triangle	0	Part answer	0	Better answer (2 parts	0	Excellent answer (3
		identified				of fire triangle)		parts of fire triangle)

Here are some fire hazards that might be found in **your** bedroom.

- frayed electrical cord
- overloaded power outlet
- candle
- cigarette lighter
- glue or solvents
- bar or gas heater
- synthetic (man-made) duvet inner
- none of these

Write a paragraph explaining one thing you could do to improve fire hazards in **your** bedroom, and why this action would be effective. If you think your bedroom is totally safe, write a paragraph explaining why it is safe.

write a paragraph explaining why it is safe.					
In your explanations refer to the parts of the fire triangle.					

#### **Description**

Identifies a hazard

#### **Partial explanation**

Identifies a hazard and explains why it is dangerous

#### **Full explanation**

Identifies a hazard and links explanation to at least one of the elements of the fire triangle

## **Examples**

- I could get rid of the candles in my room.
- I wouldn't do anything.

## Examples

- I could get rid of the candles in my room.
   They could cause a fire.
- There are no fire hazards in my room so it is safe.

## **Examples**

- I use candles in my bedroom. Lit candles could start a fire if the flame gets too close to the curtains and sets them alight. If I don't light the candles, there is nothing hot enough to start the curtains burning.
- My room is safe because there is nothing that can actually start a fire.

Use the rubric to decide how well you answered the question. Tick the box which best describes your answer. (Choose one.)

# Here is your answer:

- I did not talk about fire hazards in my bedroom.
- O I identified a hazard.
- I identified a hazard and explained why it was dangerous.
- I included at least one part of the fire triangle in my explanation.

Description	Partial explanation	Full explanation		
Identifies a hazard to remove	Identifies a hazard and explains why it is dangerous	Identifies a hazard and links explanation to at least one of the elements of the fire triangle		
Examples	Examples	Examples		
<ul> <li>I could get rid of the candles in my room.</li> <li>I wouldn't do anything.</li> </ul>	<ul> <li>I could get rid of the candles in my room. They could cause a fire.</li> <li>There are no fire hazards in my room so it is safe.</li> </ul>	<ul> <li>I use candles in my bedroom. Lit candles could start a fire if the flame gets too close to the curtains and sets them alight. If I don't light the candles, there is nothing hot enough to start the curtains burning.</li> <li>My room is safe because there is nothing that can actually start a fire.</li> </ul>		

Use the rubric above to improve your answer.			

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