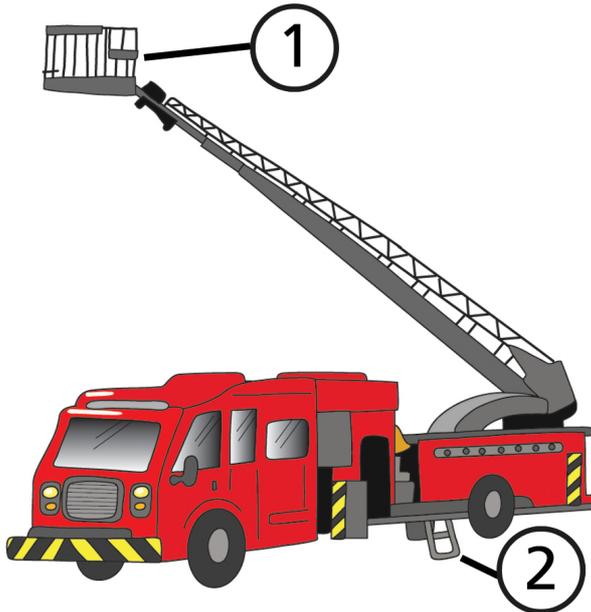


# Emergency Vehicles – Firefighters by Chris Oxlade

## AERIAL LADDER

The AERIAL LADDER reaches high into the air to help fight fires and pluck people from danger.

An aerial ladder is a fire engine with a rescue cage on the end of a super-long ladder. Firefighters stand in the cage to spray water onto a fire or rescue people in danger. The *Rosenbauer Raptor* is used by firefighters in the USA. It takes just 60 seconds to extend its stabilisers and raise its ladder to its full height.



1. The rescue cage has operating controls in it and enough space for four firefighters.
2. Stabilisers are legs that stop the *Raptor* from toppling over. There is a stabiliser at each corner of the fire engine.

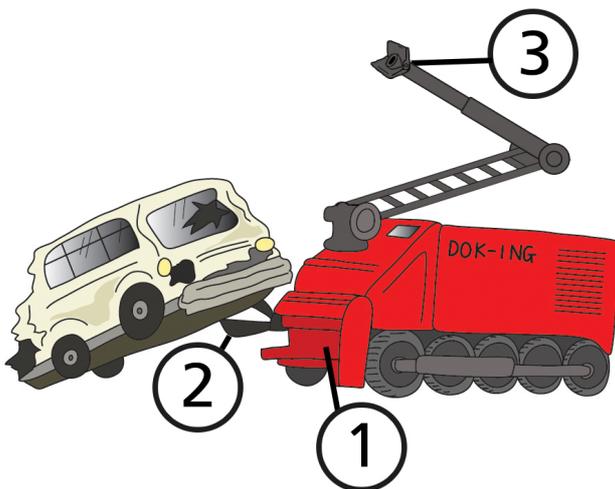
### FACTFILE: ROSENBAUER RAPTOR

- **Length:** 12 metres
- **Ladder length:** 31 metres
- **Water tank:** 1,136 litres
- **Pumping power:** 5,680 litres per minute
- **Crew:** 6 (4 in the cage; 2 on the ground)

## ROBOT FIREFIGHTING VEHICLE

Some emergency machines go where firefighters can't. A ROBOT FIREFIGHTING VEHICLE can get very close to fires to put out the flames.

What if an emergency scene is too dangerous for human firefighters? A fire may be too fierce, or there may be dangerous chemicals around. A robot firefighting vehicle, such as the *DOK-ING MVF-5*, is the answer. This mini, fireproof machine is operated by remote control. The *DOK-ING MVF-5* is tough enough to keep on working even if it runs over a mine!



1. The metal dozer blade can push objects that weigh up to nine tonnes out of its way.
2. The gripper is a huge claw on the front of the robot. It is used to grab and drag objects away from danger.
3. Nozzle sprays foam or water on a fire.

### FACTFILE: DOK-ING MVF-5

- **Length:** 3.8 metres
- **Weight:** 9.7 tonnes
- **Top speed:** 12 kilometres per hour
- **Water tank:** 2,200 litres
- **Pumping power:** 2,000 litres per minute

<b>Name:</b>	<b>Class:</b>	<b>Date:</b>
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1 Look at the first paragraph.  
What does the word “**pluck**” mean? Choose **one**.

- collect
- courage
- protect
- pull

2a  
  
1 mark

2 Find and copy one thing firefighters do in the aerial ladder cage.

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2b  
  
1 mark

3 “It takes just 60 seconds ...”  
What does the word “just” tell you about the time it takes to raise the ladder?

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2g  
  
1 mark

4 A robot firefighting vehicle is sometimes better than a fire engine.  
Find and copy one piece of evidence for this statement.

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2d  
  
1 mark

5 What does the dozer blade do?

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2b  
  
1 mark

6 Write ‘R’ if the statement is true for the Raptor or ‘M’ if the statement is true for the DOK-ING MVF-5.

It has a rescue cage.	
It is operated by remote control.	
It is 12 metres long.	
It has a gripper to drag objects from danger	