

The Power of Steam!

Materials all change at the Railway

STUDENT INTRODUCTION

- ▶ Materials such as coal and water change when heated in steam engines
- ▶ Can you work out how these materials change?
- ▶ Can you work out why they change?

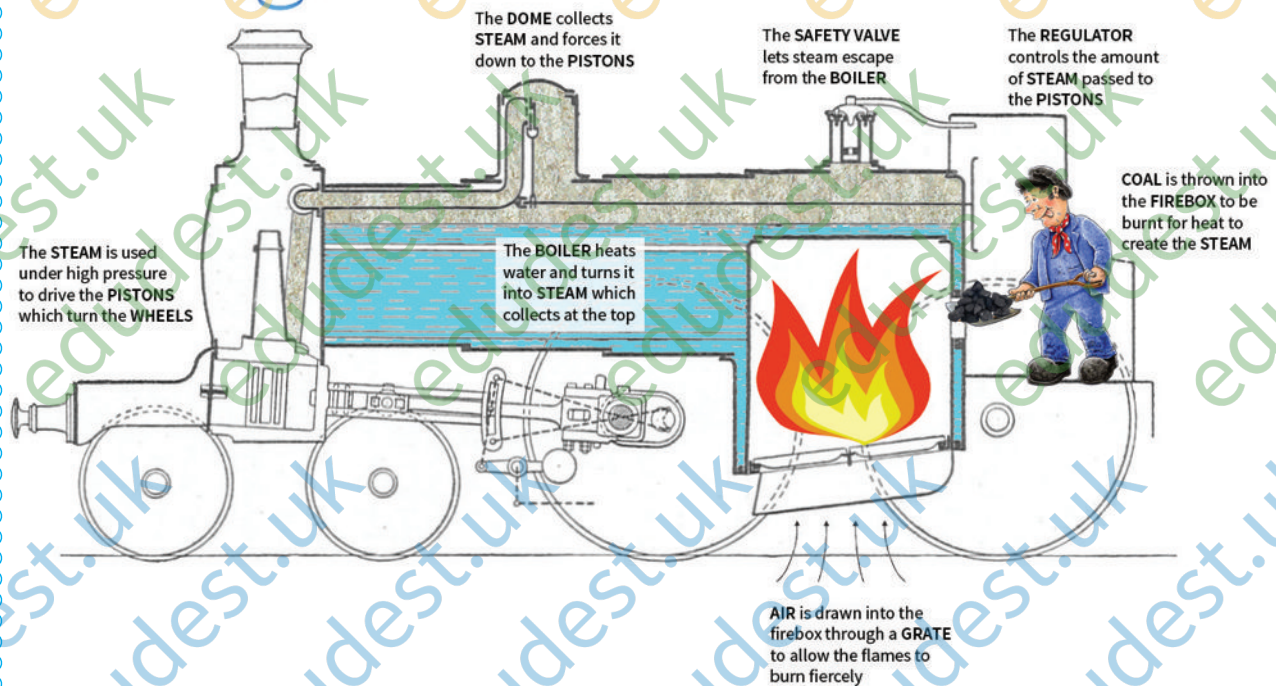


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TASK

Can you answer the following questions on materials? Use the diagram to help you.

1. What 2 main materials are shown to be changing in the diagram?
2. It is very important that the stoker (sometimes called the fireman) or driver continues to shovel the coal. What do you think would happen if he didn't?

3. What does the water change into?
4. What does the coal change into?
5. What is the 'steam' used for?
6. Where does the smoke come out?



7. What does the 'dome' do?

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8. What device do the railway staff use to fill the tank up with water?

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Cloze Exercise



The steam engine needs _____ to move along the track.

A man called a _____ or _____ shovels _____ into a furnace to heat some _____.

This creates _____ which then _____, creating pressure.

This _____ is used to drive pistons which then _____ the _____, making the train _____.

This process needs to be _____ during the _____ to make sure the _____ does not lose _____.

Word Bank

pressure, turn, stoker, expands, locomotive, steam power, driver, water, wheels, journey, power, coal, move, speed, repeated, steam.

