

ALL (Materials) Change!

At the Railway, you'll be amazed at how things change to create the power of steam..

Student Introduction

- ▶ Materials such as water change when used in locomotives
- ▶ Can you work out how the materials change and why?



How does the engine make steam?

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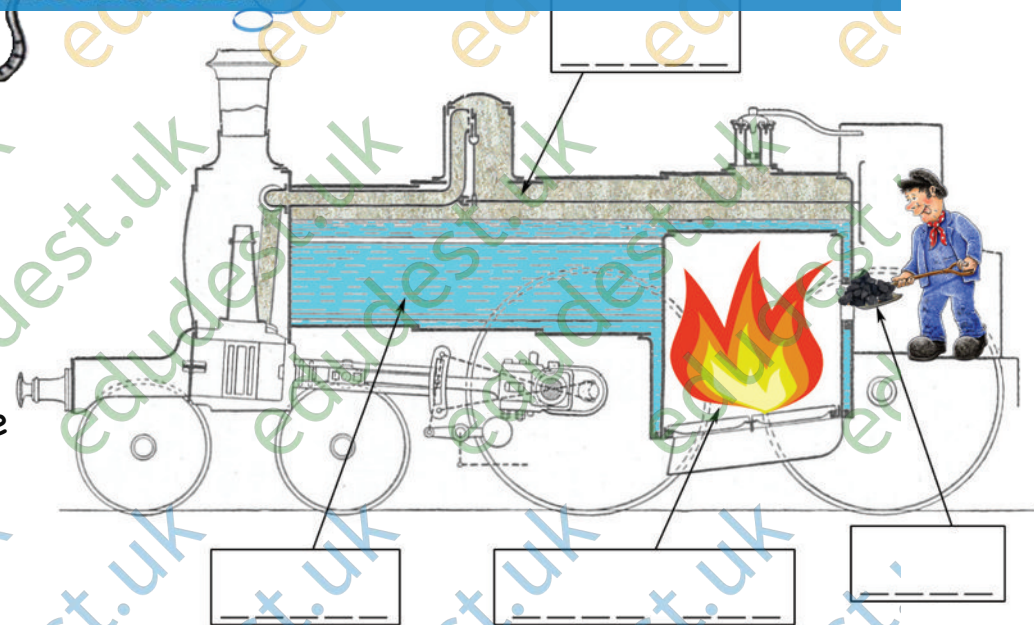
Basil says:



"Look at the diagram opposite.

Can you work out and label the correct parts of the steam engine, or locomotive?

Go, on, have a go!"



WORD BANK:

COAL FIRE BOX SMOKE STEAM WATER

1. Steam trains need steam power to move

2. Water is heated by a coal fire (the stoker or driver has to add this all the time the train is moving)

3. Steam is then created as a result of this heating

4. The steam from the heated water then expands to move the wheels!

Cloze Exercise

The steam engine needs _____ to move along the track.

A man called a _____ or _____ shovels

_____ into a furnace

This creates _____ Book today with Education Destination and get full access to this and hundreds more quality resources 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 _____.



Penny says:

"Can you complete the word search and cloze exercises on this page?"

They will test your new Steam Railway knowledge!"

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M	A	E	T	S	L	E	E	H	W
G	N	I	L	I	O	B	E	C	L
R	B	S	T	O	K	E	R	I	Y
P	R	E	S	S	U	R	E	W	F
C	O	A	L	L	E	V	O	H	S
X	O	Y	L	D	D	M	B	W	W
E	E	N	G	I	N	E	R	H	Y
Y	M	D	P	Y	J	J	T	D	C
P	E	K	O	M	S	S	D	T	U
E	V	I	T	O	M	O	C	O	L

BOILING
COAL
ENGINE
LOCOMOTIVE
PRESSURE
SHOVEL
SMOKE
STEAM
STOKER
WHEELS

Word Bank

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

