

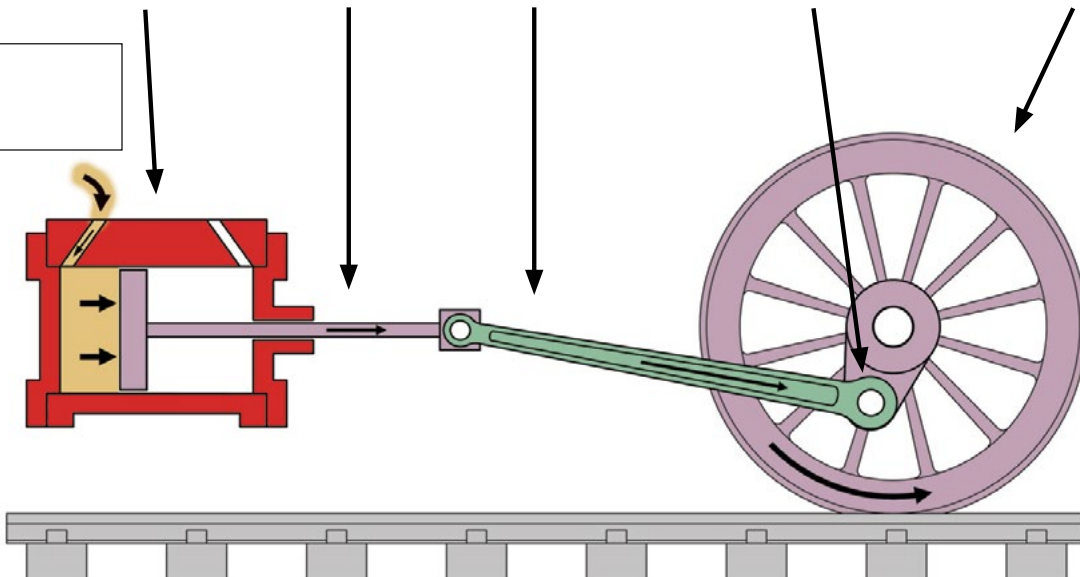
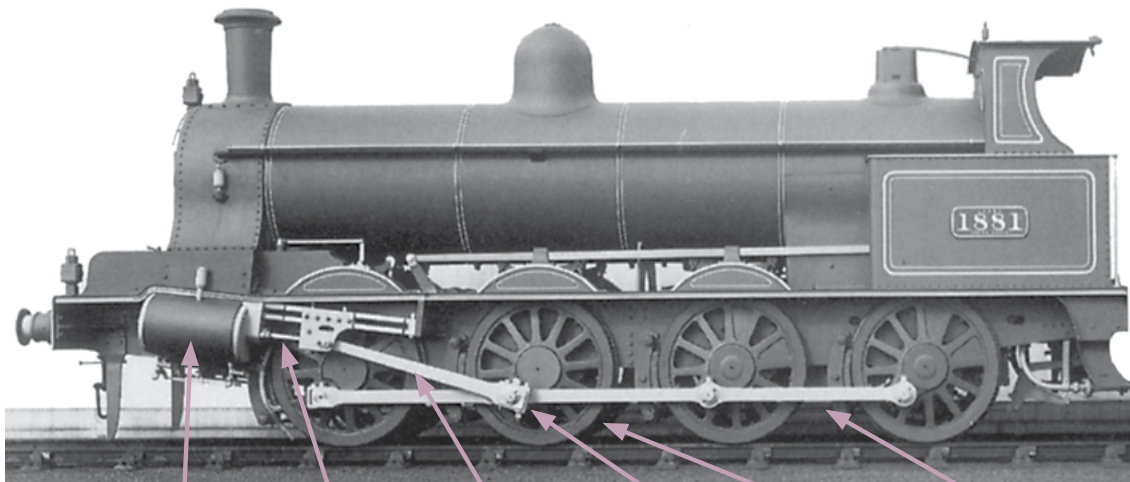
A Bit of Energy

Science Worksheet



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1. From which material does the energy come from to power the engine?
2. How is the chemical energy in that material converted to heat energy?
3. Describe how the heat energy is used.
4. The water changes state, can you name the two states?
5. Describe how the steam energy gets converted to mechanical energy to make the train move?
6. Please label the diagram



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Science Worksheet - Answers

1. From which material does the energy come from to power the engine?
Coal.
2. How is the chemical energy in that material converted to heat energy?
By burning the coal.
3. Describe how the heat energy is used.
The flames heat the water in the boiler so that it boils and makes steam.
4. The water changes state, can you name the two states?
It starts as a liquid and turns into a gas.
5. Describe how the steam energy gets converted to mechanical energy to make the train move?
The steam is under pressure and it pushes the piston along, inside the cylinder. The piston pushes the crank which turns the wheels. This is just like your legs pushing on the pedals (cranks) of a bicycle.

6.

