

The Industrial Revolution Teacher's notes and answers

All businesses consume energy so a major shift in energy policy will influence all business activity. This article reviews over 200 years of energy use and invites readers to speculate about the future.

Task

Match the words in the box with their definitions.

urgency	row	cement	pledge	unveiling
1. v. promise				<u>pledge</u>
2. v. announcing				<u>unveiling</u>
3. n. the need to do something quickly				<u>urgency</u>
4. n. argument, dispute				<u>row</u>
5. v. make secure				<u>cement</u>

Discussion

Which of the following are 'renewable resources'?

<u>wind power</u>	<u>solar energy</u>	<u>wave power</u>	coal	electricity
petroleum	<u>biofuel</u>	<u>hydro-electric power</u>	natural gas	microwaves

Task

Match the names of the engineers with their achievements.

Isambard Kingdom Brunel	built the largest ship in the world.
Charles A Parsons	used a steam turbine to create rotating motion.
George Stephenson	built a railway locomotive which travelled at 58 kph.
Thomas Newcomen	built the first steam pump.
James Watt	developed and improved the steam piston engine.

Discussion

Did the development of steam power in Britain have any influence in your country? When, where and what was that influence?

Open responses.

Task

Choose the correct words from the box to complete the sentences below.

petroleum	powered	plastics	refine	automobile
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1. Abraham Gesner was the first person to refine kerosene from petroleum.
2. Edwin Drake dug the first oil well for extracting petroleum in 1859.
3. The automobile engine was developed in 1886 by Daimler and Benz in Germany.
4. Santos Dumont was an early pioneer of powered flight in Brazil.
5. The first plastics were one of products of the petrochemical industry.

Task

Choose the correct words from the box to complete the sentences below.

1. In 1919, Ernest Rutherford first split the atom in | Manhattan | Cambridge | New Zealand.
2. In the USA, scientists used an atomic | nucleus | pile | bomb | to create plutonium.
3. Nuclear energy is used to create | gas | waste | electricity |.
4. | Methane | Coal | Natural | gas is produced when vegetables decay.
5. | Fossil fuels | Biofuels | Renewables | are damaging the Earth's climate.

Discussion

Is global warming affecting your country? What is happening now? What may happen in the future?

Open responses