Class 8 Science
Sources of Energy

Study Material Includes:

- Important Notes
- Renewable and Non-renewable Sources
- Advantages and Disadvantages
- 20 Important Questions with Answers

Prepared in colourful format for easy learning and revision.

Study Notes

Sources of Energy: A source of energy is anything that can produce heat, light, or power for doing work.

Renewable Sources: Solar energy, wind energy, hydroelectric energy, and biogas.

Non-renewable Sources: Coal, petroleum, and natural gas.

Solar Energy: Energy obtained from the Sun using solar panels.

Wind Energy: Energy generated by moving air using windmills.

Hydroelectric Energy: Electricity produced using flowing water.

Advantages of Renewable Energy:
- Pollution free
- Unlimited supply
- Environment friendly

Disadvantages of Fossil Fuels:
- Cause pollution
- Limited availability
- Harmful to environment

20 Important Questions with Answers

Q1. What is a source of energy?

Answer: A source of energy is anything that provides energy to do work.

Q2. Name two renewable sources of energy.

Answer: Solar energy and wind energy.

Q3. Name two non-renewable sources of energy.

Answer: Coal and petroleum.

Q4. What is solar energy?

Answer: Energy obtained from the Sun is called solar energy.

Q5. What are fossil fuels?

Answer: Fuels formed from dead plants and animals over millions of years are called fossil fuels.

Q6. Why are renewable resources important?

Answer: They are pollution free and can be used again and again.

Q7. What is wind energy?

Answer: Energy produced by moving air is called wind energy.

Q8. What is hydroelectricity?

Answer: Electricity generated from flowing water is called hydroelectricity.

Q9. What is biogas?

Answer: Biogas is a fuel produced from plant and animal waste.

Q10. Why should we save energy?

Answer: Saving energy helps conserve natural resources and reduce pollution.

Q11. Which fuel is commonly used in vehicles?

Answer: Petrol and diesel are commonly used in vehicles.

Q12. What are the disadvantages of fossil fuels?

Answer: They cause pollution and are limited in quantity.

Q13. What device is used to convert solar energy into electricity?

Answer: Solar panels are used.

Q14. How do windmills generate electricity?

Answer: Windmills use air movement to rotate turbines.

Q15. What is geothermal energy?

Answer: Energy obtained from heat inside the Earth.

Q16. Why is solar energy called clean energy?

Answer: It does not produce harmful gases.

Q17. What is the main source of energy on Earth?

Answer: The Sun is the main source of energy.

Q18. What are conventional sources of energy?

Answer: Traditional sources like coal and petroleum.

Q19. What are non-conventional sources of energy?

Answer: Modern renewable sources like solar and wind energy.

Q20. How can we reduce energy consumption?

Answer: By saving electricity and using renewable resources.