

Grade 8 - Science Worksheet (PT – IV)

- Which of the following gases is not emitted when fossil fuels are burned?
a) SO₂ b) CO₂ c) O₂ d) NO₂
- Identify the following:
a) A least polluting fuel for vehicles.
b) A constituent of petroleum used in Vaseline.
c) A fuel obtained from the dead remains of vegetation.
d) A coal useful product obtained during the manufacturing of coke from coal.
e) A fossil fuel obtained from the organisms living in the sea.
- Which of the following fuels has the highest calorific value?
a) Solid fuels
b) Liquid fuels
c) Gaseous fuels
d) All of the above
- Which method is used to manufacture coal-based products that are useful?
a) Winnowing
b) Centrifugation
c) Destructive distillation
d) Chromatography
- The petroleum product which is not used as a fuel is _____.
a) Petrol
b) Kerosene
c) Diesel
d) Lubricating oil
- How does energy benefit us? Explain.
- Fill in the blanks:
a) Bitumen is a _____ product.

- b) Limestone is a _____ resource.
- c) Carboniferous age is the time period required to complete the process of _____.
- d) Fuel is burned to produce _____.
- e) The major components of LPG are _____ and _____.

8. What do you mean when you say refining and petroleum refinery?

9. Why is coal referred to as a fossil fuel?

10. Match the items in column I with the appropriate items in column II.

Column I	Column II
P) Anthracite	i) Acrylic manufacturing
Q) Oil Refinery	ii) Fuel for barbeque grills
R) Solar energy	iii) 60-80% carbon content
S) LPG	iv) Mumbai
T) Petrochemicals	v) Renewable Resource
U) Bituminous	vi) 98% carbon content

11. Discover the locations of India's major thermal power plants. What could be the reasons for their presence in those locations?

12. Can forests aid in the reduction of pollution caused by the use of fossil fuels? If so, how?

13. Indicate whether the following statements are true or false.

- a) Naphthalene balls are obtained from coal gas.
- b) Petroleum is immiscible in water.
- c) Nowadays, coal gas is used as a source of heat.
- d) Petrol is used as a fuel for electric generators.
- e) Coal Tar is a dark oily liquid.

14. Which of the following is not a gaseous fuel?

- a) Coal gas

- b) Coal Tar
- c) Acetylene
- d) Kerosene

15. Explain the carbonisation process in the formation of coal.

16. Ethyl Mercaptan is added to LPG before it leaves the main storage terminals to alert you to _____.

- a) Leakage
- b) Burning
- c) Gas stove lid open
- d) Less available gas

17. Black gold is _____.

- a) A type of gold that turns black when burned.
- b) 18-carat gold
- c) Petroleum
- d) Gold sold on the black market.

18. Which of the following energy sources is not renewable?

- a) Water
- b) Oil
- c) Wind
- d) Sun

19. Name two products derived from the destructive distillation of coal. What is the by-product of this process? Give one main application for this residue.

20. Shyam prefers to use a carpool to get to college. In other instances, he prefers to use public transportation over his own vehicle.

(a) What advantages do carpooling offer?

(a) Which mode of transportation do you believe is most effective for short distances?

(c) What steps can we take to cut back on our own use of fossil fuels?

(d) What value of shyam is displayed here?