

POLICE DAV PUBLIC SCHOOL
CLASS VIII
SCIENCE
HOLIDAYS HOMEWORK WORKSHEET

1. What is the composition of water gas?
2. Name the fuel used in aeroplanes .
3. Which fuel act as base ingredient in the manufacture of fertilizers and chemicals?
4. Name the one solid, liquid and gaseous product obtained after destructive distillation of coal.
5. Which type of coal is used in manufacture of coke (fuel)?
6. Name the fuel used in dry cleaning.
7. How will you classify sources of energy on the basis of availability?
8. What are coke, coal tar and coal gas?
9. Where do we use fuel oil in industries?
10. Coal is burnt in thermal power stations. Name two gases released in this process.
11. Why do Giant Olive turtles travel all the way from Pacific Ocean to Odisha?
12. Name the bird that becomes extinct due to overexploitation.
13. Which condition is kept in mind while selecting plants for reforestation?
14. What is colonization?
15. Name the regions in India that are rich in biodiversity.
16. What does red data book deals with?
17. State the effect of force that is associated with the following activities :
(i) A potter making pots. (ii) A goal keeper saving a goal, by kicking the ball away. (iii) A batsman hitting a cricket ball for a 'sixer'. (iv) A player taking a catch.
(b) Name the kind of force present in the following situations. (i) An apple falling from a tree. (ii) A bicycle moving on a road after the rider stops pedaling it.
18. What is ignition temperature of white phosphorus?
19. What precaution should be taken while going to LPG godowns?
20. Write the type of combustion for the following examples:
a) Burning of cowdung cakes c) When a piece of white phosphorus kept in air
b) Burning of gaseous fuels d) When a cracker is ignited.
21. Write S. I . unit of calorific value.
22. What is global warming?
23. When forces are called unbalanced?
24. Two objects of mass 10 kg and 50 kg are moving in same direction along a straight line. Which one need greater force to stop it ? and why?
25. Candle flame is put off when it is covered with glass tumbler. Explain
26. If calorific value of a fuel is 10,000 kj/kg, how much of this fuel is required to produce 25,000 kj of energy?

PRACTICALS

1. To show that air is necessary for combustion.(pg122)
2. To show that paper cup containing water does not catch fire. (pg 122)
3. To show vapours are present in the innermost zone of the candle flame. (pg 128)
4. To show that the luminous zone of the candle flame contains unburnt particles of carbon.(128)
5. To show that non luminous zone of the candle flame is hottest zone. (pg 128)
6. To show liquid pressure increases with depth.(pg 70)
7. To show liquid pressure is transmitted equally in all directions.(pg 71)

8. To show existence of atmospheric pressure (pg 72)
9. To get an estimate of atmospheric pressure using rubber sucker. (pg 74)

PROJECT/ACTIVITIES

1. Make a poster on A4 sheet showing effects of air pollution. (roll no 1 to 10)
2. Find out about the different zones of a Biosphere Reserve and their significance. Also, prepare a list of all the five Biospheres Reserves in India. (roll no 11 to 20)
3. On the map of world, indicate the places where tsunami is more likely to occur. Try to find out the problems faced by people living in these regions. Take the help of newspaper clippings and internet sources. (roll no 21 to 30)
4. Find out about the different types of fire extinguishers. Write the type and locations of the fire extinguishers kept in your school.(roll no 31 to 40)
5. Genetic engineering is a branch of science in which micro organisms are being extensively used. Try to find out the role of micro organisms in genetic engineering. (roll no 41 onwards)