

LABASA SANGAM (SKM) COLLEGE
YEAR 13 APPLIED TECHNOLOGY
Worksheets

1. Define the term O.H.S.

2. Identify six types of hazards and from the six hazards discuss any three.

3. Explain the basic philosophy of O.H.S.

4. Discuss duties of employer to workers.

5. Discuss duties of person in control of work place.

6. List down workers responsibilities.

7. Explain the function of health and safety representative.

8. Explain the function of health and safety committee.

9. Give the size of an O.H.S committee.

10. Explain the O.H.S complaint procedures.

11. Define the term Qualitative Research.

12. Determine areas in which qualitative research is widely used.

13. Define the term Quantitative research

14. Determine areas in which quantitative research is widely used.

15. Discuss marketing plan.

16. Explain the following terms:

i. Executive summary

ii. Descriptive of the product

iii. Market analysis

iv. Competitive analysis

17. Define sanitary plumbing

18. List down four components of sanitary plumbing.

19. Differentiate between a septic and sewage system

20. Name three of cold water and explain the difference between them.

21. Sketch an indirect and direct hot water system.



22. Sketch and label a cold water system.



23. Why is the systematic classification of materials of importance to materials scientists?

24. Distinguish between elements, compounds and mixtures.

25. Distinguish between metals and non-metals in terms of their properties.

26. Distinguish between organic and biological materials in terms of their properties.

27. Classify the following materials as either naturally occurring or manufactured: polythene, coal, native copper, mild steel, timber, stone, natural rubber, bone, leather, limestone. Justify your answer.

What is an inorganic material/ briefly discuss the important features of any two groups of inorganic materials.

28. What is the essential feature of a ceramic material?

29. Explain the terms: electron, proton, neutron, nucleus, electron shell and electron orbital.

30. Distinguish between primary and secondary chemical bonds in terms of bond energies and electron involvement.

31. Distinguish between electropositive and electronegative elements and give examples to illustrate your answer.

32. Describe the essential features of the metallic bond, referring particularly to bond directionality and electron movement.

33. Define paint.

34. Name and explain three components of paint

35. Describe the three parts of paint brush.

36. Explain the difference between the Low Volume Low Pressure (LVLP) and High Volume Low Pressure spray gun (HVLP).

37. Name the three technologies for charging the fluids.

38. Explain the term automated linear spray system.

39. What are tiles made of?

40. Explain the type of tiles used in roofing.

41. Explain the types of tiles for roofing.

42. Explain the following tiles:

i. Ceramic tiles

ii. Mosaic tiles

iii. Modern vinyl floor tiles

43. Explain the steps in tiling both the floor and walls.

44. Discuss the difference between a two stroke and four stroke engines.

45. List down with their uses the main parts of internal combustion of engines?

46. Explain the difference between suction stroke and compression stroke.

47. Write down three advantages of a four stroke engines.

48. Write down three disadvantages of a four stroke engines.

49. Differentiate mist lubrication system with wet sump lubrication system.

50. Discuss the following:

i. Splash lubrication system

ii. Splash and pressure system

iii. Pressured lubrication system

51. Define electricity

52. Discuss the following terms:

i. Current

ii. Voltage

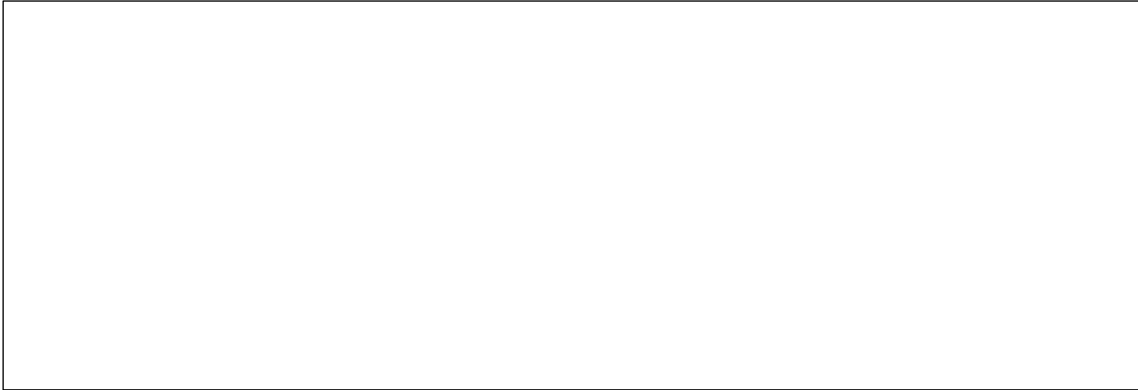
iii. Resistance

53. Explain electrical basics with a help pf a sketch?

54. Convert the following to volts

- i. 44 NV
- ii. 55 NV
- iii. 73 NV
- iv. 43 NV

55. Discuss Ohm's law with the help of a sketch?



56. Describe two electrical properties.

57. Explain the following terms:

i. Electrolytic capacitor

ii. Ceramic capacitor

58. List down the five steps in completing a wiring in a three way switch.
