GRADE 7 END OF YEAR HOLIDAY HOMEWORK

INTEGRATED SCIENCE

This PDF Comprises of 5 Holiday Assignment Test papers numbered (Volume 1-5) Covering all the assessment points across the whole grade 7 syllabus. The assignment is meant to enhance the learner's content mastery for the work covered and keeping the learner busy during the holidays!

ALL GRADE 7 LEARNERS PROMOTED TO GRADE 8 SHOULD ATTEMPT THESE QUESTIONS AT THE BACK OF THEIR EXERCISE BOOKS!!

PERHAPS, PARENTS SHOULD ORDER MARKING SCHEMES/ANSWERS FROM MR MACHUKI 0724333200 TO ENABLE THE LEARNERS TO MARK AND REVISE THROUGH THE CONCEPTS TESTED THEREIN DURING THE NOV/DEC LONG HOLIDAY.

HAPPY HOLIDAYS!!!

KENYA EDUCATORS CONSULTANCY

NAME…….. ADM NO……..CLASS……

GRADE 7 END OF YEAR NOVEMBER/DECEMBER 2023 HOLIDAY HOMEWORK BOOKLET

VOLUME 1

INTEGRATED SCIENCE

GRADE 7

TERM 3 2023

1. List down 3 components of integrated science. ***(3mks)***

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2. Identify 4 career opportunities related to knowledge and skills gained in integrated science. ***(4mks)***

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3. What is a laboratory? ***(2mks)***

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4. List down 4 hazards likely to be found in the laboratory. ***(4mks)***

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5. Describe the first aid procedure for cuts. ***(8mks)***

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6. Study the picture below and answer the questions that follows.

i. Discuss 2 possible causes of the injuries shown in the pictures. ***(4mks)***

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7. List 4 safety measures to be observed in the laboratory. ***(4mks)***

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8. State 3 basic skills you need in the laboratory. ***(3mks)***

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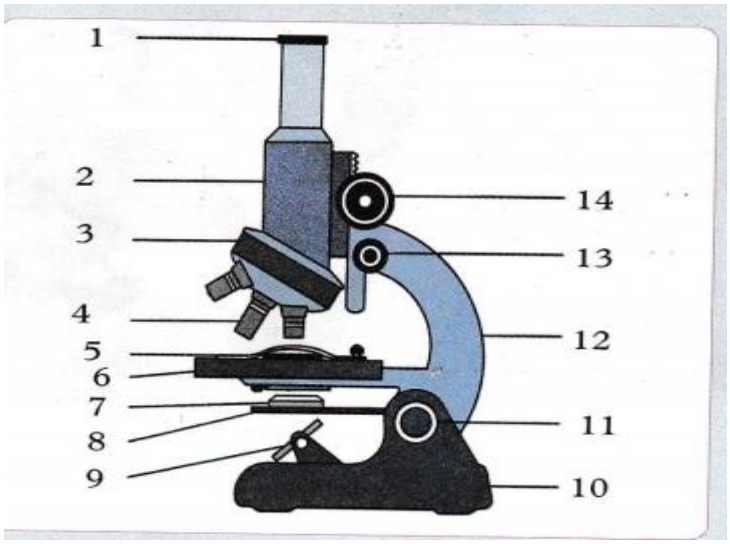
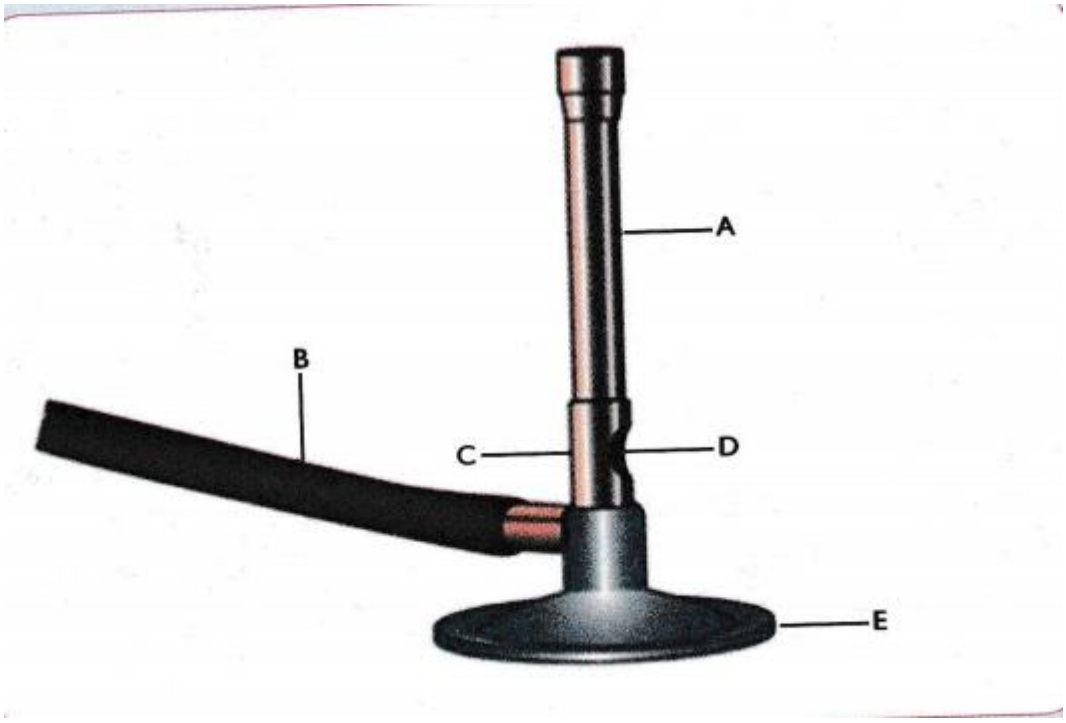
9. Draw 4 apparatus and write their names. ***(4mks)***

10. Observing the diagram below, identify and discuss the following parts of a microscope. ***(5mks)***



Part 12 ……
Part 1……..
Part 14……
Part 8…….
Part 3……..

11. Study the picture shown below and answer the questions that follows.



i. State the uses of the above apparator. ***(1mk)***

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ii. Name the apparator. ***(1mk)***

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iii. Name the parts labelled A to E. ***(5mks)***

A……

B……

C……

D……...

E……

12. During an integrated science lesson, students were making mixtures. Anyango made a mixture of milk and water while Olekete made a mixture of cooking oil and spirit. Describe the types of mixtures that was made by the 2 students. ***(4mks***

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13. List down 3 examples of heterogeneous mixtures. ***(3mks)***

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14. i. Name 3 basic quantities and their SI units. ***(3mks)***

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ii. Define international system of units ***(1mk)***

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15. List mixtures that can be separated using the following methods.

i. Simple distillation ***(1mk)***

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ii. Decantation. ***(1mk)***

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iii. Chromatography. ***(1mk)***

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iv. Solvent extraction. ***(1mk)***

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16. Briefly explain how a mixture of sand and salt can be separated. ***(4mks)***

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17. Write the meaning of these hazard symbols they observed. ***(4mks)***

a……..
b……
c……
d……

18. Name any 5 safest ways of handling a microscope after use. ***(5mks)***

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19. Discuss how to handle and care for the following types of apparatus and instruments.

i. Glassware ***(1mk)***

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ii. Metallic apparatus ***(2mks)***

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iii. Heating instruments ***(3mks)***

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20. Define field of view as used in the microscope. ***(1mk)***

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21. List down 5 safety precautions to observe when heating using a Bunsen burner ***(5mks)***

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22. State 4 importance of information on packaging of laboratory instruments and chemicals. ***(4mks)***

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23. List 4 methods used in separation of mixtures. ***(4mks)***

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24. List 4 uses of chromatography. ***(4mks)***

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NAME…….. ADM NO……..CLASS……

GRADE 7 END OF YEAR NOVEMBER/DECEMBER 2023 HOLIDAY HOMEWORK BOOKLET

VOLUME 2

INTEGRATED SCIENCE

GRADE 7

TERM 3 2023

1.
   a. What is integrated Science? (1mk)

   b. List three components of integrated science. (3mks)

2. List three importance of Integrated Science in daily life? (3mks)

3.
   a. Define the term hazard. (1mk)

   b. Name three common hazards in the laboratory. (3mks)

4.
   a. Name four common accidents in the laboratory. (4mks)

   b. List two causes of common accidents in the laboratory. (2mks)

5. State three basic skills needed in the laboratory. (3mks)

6. Name four items found in a first aid kit. (4mks)

7. Name the SI (International System of units) for the following terms. (4mks)
a. Temperature
   b. Length
   c. Mass
   d. Time
8. Name two career opportunities related to knowledge and skills acquired in Integrated Science. (2mks)

NAME…….. ADM NO……..CLASS……

GRADE 7 END OF YEAR NOVEMBER/DECEMBER 2023 HOLIDAY HOMEWORK BOOKLET

VOLUME 3

INTEGRATED SCIENCE

GRADE 7

TERM 3 2023

1.
   a. Name four common accidents in the laboratory. (4mks)
   b. List two causes of common accidents in the laboratory. (2mks)
2.
   a. What is integrated Science? (1mk)
   b. List three components of integrated science. (3mks)
3. List three importance of Integrated Science in daily life? (3mks)
4.
   a. Define the term hazard. (1mk)
   b. Name three common hazards in the laboratory. (3mks)
5.
6. State three basic skills needed in the laboratory. (3mks)
7. Name four items found in a first aid kit. (4mks)
8. Name the SI (International System of units) for the following terms. (4mks)

i. Temperature
ii. Length
iii. Mass
iv. Time

Name two career opportunities related to knowledge and skills acquired in Integrated Science. (2mks)

NAME…….. ADM NO……..CLASS……

GRADE 7 END OF YEAR NOVEMBER/DECEMBER 2023 HOLIDAY HOMEWORK BOOKLET

VOLUME 4

INTEGRATED SCIENCE

GRADE 7

TERM 3 2023

1. Give two components of integrated science (2mks)

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2. Jane a junior secondary student at Sori Junior secondary school was asked by her teacher to identify three career opportunities related to integrated science , which correct answers did she give.(3mks)

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3. Identify two importance of studying integrated science (3mks)

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4. During practical in the laboratory, student met the following signs, mounted at various places, identify them

(4mks)

a. …… b……..

c…… d. ……...

5. Give four importance of safety in the laboratory (4mks)

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6. During a laboratory practical student were asked to randomly identify the basic of science skills , which answers did they give (3mks)

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7. Give the SI unit of the following (3mks)

Length	
Mass	
Electric current	

8. List two items found in the first aid kit (2mks)

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9. Give one example in each case, identify three types of apparatus in laboratory (3mks)

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10. Identify two causes of accidents in a laboratory (2mks)

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NAME…….. ADM NO……..CLASS……

GRADE 7 END OF YEAR NOVEMBER/DECEMBER 2023 HOLIDAY HOMEWORK BOOKLET

VOLUME 5

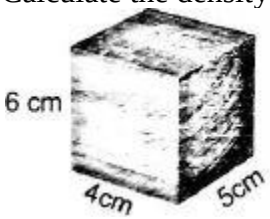
INTEGRATED SCIENCE

GRADE 7

TERM 3 2023

QUESTIONS

1. Why are alcohol thermometers preferred to mercury thermometers? (1 mark)
2. What would Elsie's temperature be in kelvin (K) if her temperature is 36°C? (1 mark)
3. During an Integrated Science lesson, some grade 7 learners wanted to measure electric current.
    a. Which instrument would they use? (1 mark)
    b. Which SI unit would they use as they record their findings? (1 mark)
4. Write the meaning of density? (1 mark)
5. Calculate the density of the wooden block shown below if its mass is 8g. (3 marks)



6. Some grade 7 learners carried out the following activities. Which basic skill did they use in each case? (3 marks)
    a. Fanaka saw the wind blowing and nimbus clouds gathering. She decided to remove her clothes from the cloth line.
    b. A tailor took the measurement of a customer before cutting the garment in the required size.
    c. A lady prepares some nice food for her family.

7. Prince and his friends wanted to use a Bunsen burner in the laboratory to carry out an experiment. Write two safety precautions they should consider. (2 marks)
8. The following are instruments used to measure mass and weight. Write their names. (3 marks)

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9. Write the function of the following laboratory apparatus. (2 marks)
    a. Volumetric flask
    b. Pipette
10. Mama Jesse downloaded the item below from the internet.

    a. What is the name of the instrument that she downloaded? (1 mark)
    b. Write the use of the instrument? (1 mark)
    c. What else can someone use to perform the same function as the instrument in the diagram? (1 mark)
11. .....is an object, organism or a part of an organism that is used in scientific study. (1 mark)
12. Draw a conical flask in the provided space. (2 marks)
13. What should Helena use to support a crucible during heating? (1 mark)
14. Define the following terms. (2 marks)
    a. Homogenous mixture
    b. Heterogeneous mixture

15. Classify the following mixtures accordingly. (3 marks)

Mixture	Homogenous or Heterogeneous
Mixture of maize and beans	
Mixture of water and kerosene	
Mixture of milk and water	

16. Write one example of each of the following mixtures. (4 marks)
    a. Gas and gas
    b. Solid and solid
    c. Solid and liquid
    d. Liquid and liquid
17. Juma was asked by his friend to explain the meaning of melting point. What was he likely to say? (1 mark)
18. Grade 7 learners from Nyati JSS were asked to fill in the table below correctly. Help the learners to fill in the blank spaces. (4 marks)

Substance	Pure or Impure	Reason
Ice		
Candle wax		

19. Mwajuma was asked by her sister to explain the meaning of boiling point. Mwajuma must have said that boiling point is (1 mark)
20. Fanaka wanted to prepare ugali for lunch. She decided to boil water at sea level. At what temperature should she expect the water to boil? (1 mark)
21. State two applications of separating mixtures by use of a magnet. (2 marks)
22. Emma and her friends wanted to make an acid-base indicator using flower petals. Why is it advisable to crush the flower petals before using them? (1 mark)
23. The pH scale has values ranging from ..... to..... (1 mark)
24. Grade 7 learners from Olematope Juniour Secondary School wanted to classify different liquids as strong acid, weak acid, strong base or weak base depending on their pH value. Use the pH values to fill in the table they had drawn. (4 marks)

Liquid	pH value	Classification
Liquid Z	3	
Liquid X	5	

Liquid G	8	
Liquid Q	12	

25. Teacher Angeline advised her leaners that Sodium hydroxide solution should not spill on their skin. Why do you think she did so? (1 mark)