



**MILESTONE ACADEMY**  
**VACATION HOME- WORK**  
**CLASS -IX**

**SUBMISSION DATE : -16.06.2026**

---

**ENGLISH :-**

**1. PORTFOLIO**

- Cover Page  
Title: English Portfolio  
Chapter: The Sound of Music (Part 1 – Evelyn Glennie)  
Name: \_\_\_\_\_  
Class & Section: \_\_\_\_\_  
Roll No.: \_\_\_\_\_  
School Name: \_\_\_\_\_  
Subject: English  
Teacher's Name: \_\_\_\_\_
  
- Index  
S. No.  
Content  
Page No.  
1. Acknowledgement  
2. Introduction  
3. Objectives  
4. About the Author  
5. Summary  
6. Word Meanings  
7. Character Sketch  
8. Themes  
9. Mind Map  
10. Creative Work  
11. Conclusion  
12. Bibliography

**2. Imagine the story from the stranger's point of view. Narrate what he experienced.**

**(word limit 100-120 words)**

- Rewrite the ending by imagining that the child finds his parents on his own.
- Create a short speech on: "Parents are our greatest support system."
- Describe the fair using your five senses (sight, sound, smell, taste, touch).
- Write a conversation between the child and his parents after they reunite.

**3. Creative / Project Work (word limit 100-120 words)**

- Imagine you are Margie.
- Write a diary entry about your day at school.
- Design your "dream school" (future or present) and describe its features.
- Write a short paragraph on: "Will schools disappear in the future?"
- Draw and describe a mechanical teacher and its functions.

**HINDI :-**

**क. लगभग 50 समानार्थी शब्द लिखिए।**

**ख. गर्मी के मौसम में पशु- पक्षी के रखरखाव के लिए मां और बच्चे के बीच हुए संवाद को लिखिए।**

**SANSKRIT :-**

1. कालिदासः विरचितम् अभिज्ञान शाकुन्तलम् वा रघुवंशम् इत्यस्मिन् पात्राणां नामानि लिखत ।
2. एकस्य पात्रस्य प्रमुखानि दस वाक्यानि लिखत तेन त्वम् प्रभावितः ।

## SCIENCE :-

### Chemistry

1. "Types of Mixtures"  
Collect examples from home.  
Classify into homogeneous and heterogeneous.
2. "Kitchen Science"  
Observe 5 mixtures used in cooking.  
Explain how they are separated or used.

### Physics

1. Motion Around You  
Observe any 5 moving objects around you (fan, bike, person walking, train, etc.) and write:  
OBJECT  
Type of Motion  
Fast/Slow  
Uniform/Non-uniform  
Creative Work
2. Make a colorful chart/model on any one topic:  
Types of Motion  
Speed vs Velocity  
Motion Graphs  
Newton and Contribution to Motion

### BIOLOGY

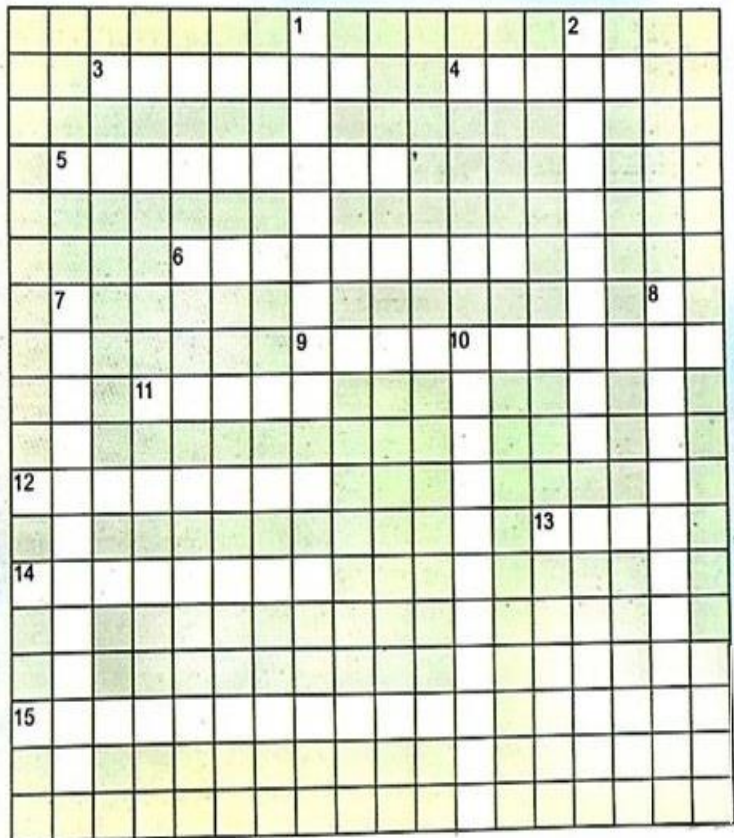
1. Write the contribution of following scientists in the study of the cell.  
a) Robert Hooke    b) Purkinje    c) Robert Brown    d) Schleiden and Schwann
2. State the functions of each of the following components of the cell.  
a) Cell membrane    b) Nucleus    c) Ribosome    d) Mitochondria
3. Prepare charts on a plant cell and animal cell.
4. Write flow charts on the following topics:  
a) Types of plant tissues.  
b) Types of animal tissues.
5. Solve the following puzzle:

#### I. Crossword Puzzle

Solve the following crossword puzzle with the help of given clues.

##### Down

1. Sites of protein synthesis.
  2. Spindle formation during cell division.
  7. Absence of membrane-bound organelles in
  8. Gaseous exchange between the cells.
  10. Kitchen of the cell.
- ##### Across
3. Passage of water through semipermeable membrane.
  4. Functional segments of DNA.
  5. Plant cell wall is composed of.
  6. The fluid content inside the plasma membrane.
  9. *Amoeba* acquires its food through this process.
  11. Absence of cell membrane.
  12. Amino acids, sugars, etc. in plant cells are stored in.
  13. Smooth endoplasmic reticulum helps in manufacture of
  14. Suicidal bag of the cell.
  15. Powerhouse of the cell.



**MATHS :-**

1. Find the missing number.



Answer : \_\_\_\_\_

2. Identify the number to be written in the empty place.



Answer : \_\_\_\_\_

3. Observe the following and find the missing value.



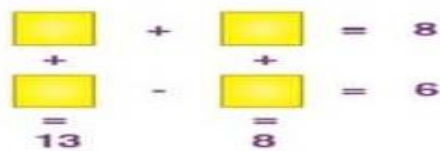
Answer : \_\_\_\_\_

4. What is the missing number in the following puzzle?



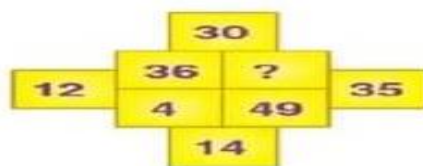
Answer : \_\_\_\_\_

5. Complete the following puzzle.



Answer : \_\_\_\_\_

6. What can be added in place of a question mark?



Answer : \_\_\_\_\_

7. Find the number that can be replaced with (?) in the following puzzle.



Answer : \_\_\_\_\_

8. What will replace the (?) in the following puzzle?



Answer : \_\_\_\_\_

9. Complete the puzzle.

$$\begin{array}{r} \square \\ \times \\ \hline = 21 \end{array} + \begin{array}{r} \square \\ - \\ \hline = 5 \end{array} = 8$$

$$\begin{array}{r} \square \\ \times \\ \hline = 9 \end{array} - \begin{array}{r} \square \\ \times \\ \hline = 5 \end{array} = 8$$

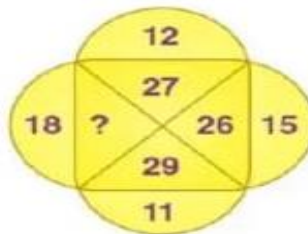
Answer : \_\_\_\_\_

10. Find the missing number.

7	12	5
10	??	9
14	7	12

Answer : \_\_\_\_\_

11. Which number can be written in the missing place?



Answer : \_\_\_\_\_

12.

### Solving Linear Equations SUDOKU

Name: \_\_\_\_\_

	A	B	C	D	E	F	G	H	I
J									
K									
L									
M									
N									
O									
P									
Q									
R									

Solve each equation on a separate piece of paper. Place answers in the appropriate box. Once you have completed the 20 problems, fill the remaining boxes in the Sudoku.

- AJ:  $-9 = x - 14$
- AM:  $-2x - 13 = -3x - 5$
- AO:  $4x - 2x = 18$
- AQ:  $3m + 4.5m = 15$
- AR:  $2(8 + p) = 22$
- BJ:  $-4(x + 6) = -40$
- BO:  $7m - 3m - 6 = 6$
- CL:  $\frac{2}{3} + \frac{3k}{4} = \frac{71}{12}$
- CP:  $8y - (2y - 3) = 9$
- DJ:  $4n - 7 = 5 - 2n$
- DK:  $5y - 3 = 2y + 12$

- DN:  $\frac{4}{6} = \frac{m}{9}$
- DR:  $6(y + 3) = 24$
- EM:  $-2q - 5 = -11$
- EO:  $5w + 2 = 2w + 5$
- FJ:  $3x - 7 = 20$
- FN:  $\frac{c}{5} - 4 = -3$
- FQ:  $3x - 2 = 16$
- FR:  $9 = -4y + 6y - 5$
- GL:  $-6a + 2a = -36$
- GP:  $6 - 3(2k - 4) = -18$
- HM:  $-0.04x + 1.32 = 1.08$
- HR:  $4x - 3 = x + 9$
- IJ:  $4\left(\frac{1}{4} + x\right) = 5$
- IK:  $6x = 24$
- IM:  $3a + 4 = a + 18$
- IO:  $0.5t - 3t + 5 = 0$
- IR:  $-(z + 5) = -14$

## SOCIAL SCIENCE:-

1. Create a poster or collage showing people from different cultures, languages and regions living together. You may use drawings, magazine cuttings, or digital art. A short caption explaining the theme should be added. This activity combines creativity with social understanding. It reinforces the idea of unity in diversity.
2. Analyse how variations in monsoon rainfall affect agriculture, farmer's income, food prices, employment and migration in India. By linking Geography with Economics and Civics, you may understand why the monsoon is referred to as the lifeline of the Indian economy? ( Note : Use project paper)
3. Create a poster or collage on the theme " My vote, My Right" . You may use drawings, slogans, symbols or charts to show the importance of voting in a democracy.

IT-

### Project 1

Design following pages by using Open Office Writer features.

# MILESTONE ACADEMY



## PROJECT INFORMATION TECHNOLOGY CODE : 402

SESSION : 2022-23

SUBMITTED BY:

STUDENT NAME : .....

ROLL NO. : .....

CLASS &SECTION : .....

SUBMITTED TO:

TEACHER'S NAME

## ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my teacher (Name of the teacher) and our principal (Name of the principal) who gave me the golden opportunity to do this project on the topic (Write the topic name). It helped me in doing a lot of research and I came to know about a lot of things related to this topic.

Finally, I would also like to thank my parents and friends who helped me a lot in finalizing this project within the limited time frame.

Cashless payment.

