

Subject Enrichment Activity – Class VIII Science

Activity 1: Exploring the Night Sky

Name any two celestial objects visible in the night sky.

Why do stars twinkle but planets do not?

Write any three differences between a star and a planet.

♦ Draw a neat, labelled diagram of the Solar System.

Activity 2: Constellations and Pole Star

What is a constellation? Name any two.

Why is the Pole Star (Dhruv Tara) important?

How can the Pole Star be located using the Saptarishi constellation?

Write one difference between a constellation and the solar system.

♦ Draw a labelled diagram of Saptarishi showing the Pole Star.

Activity 3: Air Pollution Around Us

List three sources of air pollution, especially in winter.

Write two harmful effects of air pollution on human health.

Suggest three measures to reduce air pollution at the individual level.

♦ Write one slogan on “Clean Air”.

Activity 4: Water Pollution and Its Control

Write two causes of water pollution.

Write two effects of polluted water on living organisms.

Write the role of sewage treatment plants in controlling water pollution.

♦ Draw a simple flow diagram of water purification.

Submission Instructions

Write all activities in the Activity Notebook.

Use neat handwriting and properly labelled diagrams.

Write answers in your own words.

Mention Name, Class, Section, and Date on the first page.

Submit the notebook after the Winter Break.

Assessment Scheme (Maximum: 10 Marks)

Concept clarity : 4 marks

Diagrams / presentation: 3 marks

Neatness & originality: 2 marks

Timely submission: 1 mark

Kendriya Vidyalaya picket

HHW

Class 8

1. Multidisciplinary Project:

Topic - Conservation of Resources

Sub topic

- 1 Types of Resources
- 2.Importance of Resource Conservation
- 3.Conservation of Natural Resource
- 4.Role of Government in Resource Conservation
- 5.Sustainable Development
- 6.Impact of Overuse of Resources
- 7.Conclusion

Note - This project will be completed on A4 sheets, and pictures will also be pasted wherever required.

2.Activity-

Map Work:

On the outline map of India, locate and neatly label the important cities ruled by the Marathas as mentioned in the chapter "The Rise of the Marathas."

Note-This map work will be completed on activity notebook

PM SHRI KENDRIYA VIDYALAYA PICKET , SECUNDERABAD

CLASS 8- MATHS - WINTER BREAK HOLIDAY HOMEWORK

1. Evaluate the following:

- (i) (ukasar-ukasar-ukasar-ukasar-urapon) + (ukasar-ukasar-ukasar-urapon)
- (ii) (ukasar-ukasar-ukasar-ukasar-urapon) – (ukasar-ukasar-ukasar)
- (iii) (ukasar-ukasar-ukasar-ukasar-urapon) × (ukasar-ukasar)
- (iv) (ukasar-ukasar-ukasar-ukasar-ukasar-ukasar-ukasar-ukasar) ÷ (ukasar-ukasar)

2. Add the following numbers without converting them to Hindu numerals:

(a) CCXXXII + CCCCXIII

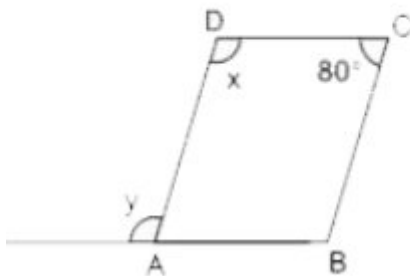
(b) LXXXVII + LXXVIII

Add the following Egyptian numerals:



4. Construct a parallelogram with adjacent sides of 5cm and 7 cm and an angle of 60° between them.

In the given parallelogram, find the values of x and y.



6. Represent the relation among a square, a rectangle and a parallelogram using a Venn diagram. Answer the following questions:

- a) Is a square a rectangle?
- b) Is a rectangle a parallelogram?

7. Write a 6-digit number that is divisible by 15, such that when the digits are reversed, it is

divisible by 6.

8. Solve the cryptarithms

(i) $EF \times E = GGG$

(ii) $WOW \times 5 = MEOW$

9. A number leaves remainder 3 when divided by 7 and another number leaves a remainder 5 when divided by 7. What is the remainder when their sum is divided by 7?

10. Compute 397×403 using identity $(a-b) \times (a+b)$

MDP – TOPIC: CONSERVATION OF RESOURCES (To be done on A4 sheets)

1. Draw a Bar Graph based on the given information

Year	Forest Area (sq km)
2016	81,000
2017	78,500
2018	77,000
2019	75,500
2020	72,000

(a) In which year was forest area maximum?

(b) Find the decrease percent in forest area from 2016 to 2020.

2. A school had 2500 trees in 2018. After a plantation drive the number increased to 3250 trees in 2025. Find the increase in number of trees and its increased percentage.

3. Draw a pie chart of monthly electricity usage in a house for various rooms and find which area uses the most electricity.

4. A monthly electricity consumption is 180 units. After conservation, usage reduces to 150 units. Find the money saved if cost per unit is Rs.7.

5. Suggest some ways of conserving electricity.

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