



**D.A.V. PUBLIC SCHOOL, BARIATU, RANCHI**

**CLASS: VIII**

**HOLIDAY HOMEWORK**

**SUBJECT: English**



Dear students, the much-awaited time, Summer Vacation, is here, where school is out and fun is in.

We would love to see you soak up the sun, play with friends, and make memories that will last a lifetime.

Nevertheless, we suggest you twist your arm and persuade yourself into the following:

. **Reading**: Explore new books, authors, and genres.

. **Go on a family trip or vacation**: Explore new destinations, and spend quality time with family.

. **Meet new friends**: Join a club, team, or group that aligns with your interests.

. **Volunteer work**: Help at an animal shelter, park, or local charity.

. **Shoulder responsibility**: Arrange your room and lend your helping hand to your parents.

. **Create a photo album or scrapbook**: Document memories and experiences.

**SUMMER HOLIDAY HOMEWORK**

- Read the poem:

## Daffodils

I wandered lonely as a cloud

That floats on high o'er vales and hills,

When all at once I saw a crowd,

A host of golden daffodils;

Beside the lake, beneath the trees,

Fluttering and dancing in the breeze.

Continuous as the stars that shine

And twinkle on the Milky Way,

They stretched in a never-ending line

Along the margin of a bay:

Ten thousand saw I at a glance,

Tossing their heads in sprightly dance.

The waves beside them danced, but they

Outdid the sparkling waves in glee:

A poet could not but be gay,

In such a jocund company:

I gazed—and gazed—but little thought

What wealth the show had brought to me:

For oft, when on my couch I lie

In a vacant or in a pensive mood,

They flash upon that inward eye

Which is the bliss of solitude;

And then my heart with pleasure fills,

And dances with the daffodils.

- by William Wordsworth

## ACTIVITY - 1 (COMPREHENSION)

1. Answer the following questions.

i. What is the poem about?

ii. What is the simile in the first verse?

iii. Is there a rhyming pattern in this poem? What is it?

iv. The poet says in the last line that his heart 'dances with the Daffodils'. Is his heart really dancing? What figure of speech is used here?

v. What do you think the poet means by the 'inward eye', which is the 'bliss of the solitude'?

## ACTIVITY -2 (DIALOGUE WRITING)

Situation:

Rohan, a 10-year-old boy, has been spending his summer vacation at his paternal grandparents' house in a small town. One evening, Rohan's father, Raj, comes to visit and has a conversation with his mother, Rohan's paternal grandma, Nalini. Write the dialogues. Imagine you are Rohan.

## ACTIVITY- 3 (COMPARATIVE ANALYSIS)

Imagine that you are in the year 2155, when perhaps there will be no school and no books; traditional school is replaced by a virtual classroom and a mechanical teacher. Compare and contrast the education system of the future with the education system of the present time. Consider factors such as teaching methods, curriculum content, student-teacher interactions, the role of technology, etc.

## ACTIVITY -4 (Travelogue Writing)

"Imagine you have just returned from a week-long trip to a hill station with your family. Write a travelogue describing your experiences, sights, and feelings during the trip.

In your travelogue, be sure to include:

- A brief introduction to the hill station you visited
- A description of the places you visited and the activities you did
- Your impressions of the local people, food, and culture
- Any challenges or memorable moments you experienced during the trip
- Conclusion: What did you learn from the trip, and would you recommend it to others?

कक्षा- आठवीं

विषय :हिंदी

1. यदि आप पंछी होते तो आप अपना जीवन किस प्रकार व्यतीत करते हैं।
2. द्वारा ने जिस प्रकार भ्रष्टाचार समाप्त किया ठीक उस पर आधारित एक कहानी लिखें।
3. आप गर्मियों की छुट्टी किस प्रकार व्यतीत कर रहे हैं संवाद शैली में लिखें।

ग्रीष्मावकाश गृहकार्य

संस्कृत



2. 'क्त्वा' प्रत्ययं योजयित्वा रिक्तस्थानानि पूरयन्तु-

- (i) राधा विद्यालयं ..... (गम्+क्त्वा) पठति ।
- (ii) अध्यापकः प्रश्नं ..... (प्रच्छ्+क्त्वा) छात्रं पश्यति ।
- (iii) रमा प्रश्नस्य उत्तरं न ..... (दा+क्त्वा) लज्जिता अभवत् ।
- (iv) कृषकाः कार्यं ..... (कृ+क्त्वा) गृहं गच्छन्ति ।
- (v) अनुपमा कथयति, 'अहं पाठं ..... (स्मृ+क्त्वा) आगमिष्यामि ।

1. अधोलिखितानां रज्जितपदानां सन्धिं कुर्वन्तु-

- (i) सुख+अर्थी विद्यां त्यजेत् ।
- (iii) रात्रौ रजनी+ईशः उदयति ।
- (v) दया+आनन्दः तत्र वसति ।
- (vii) महा+आत्मा आगच्छति ।
- (ix) सु+उक्तिः एषा ।

2. कोष्ठकप्रदत्तशब्दैः सह रिक्तस्थानानि पूरयन्तु-

- (i) चौरः धनं ..... (परि + ह + ल्यप्) धावति ।
- (ii) आलोकः पुस्तकालयात् पुस्तकं ..... (आ + दा + ल्यप्) पठति ।
- (iii) मणिका धनं ..... (सम् + ह + ल्यप्) दानं यच्छति ।
- (iv) रमा ..... (वि + ज्ञा + ल्यप्) अपि न लिखति ।
- (v) सः दुखम् ..... (अनु + भू + ल्यप्) हतोत्साहितः अभवत् ।



## अधोलिखितानां रज्जित्पदानां सन्धि कुर्वन्तु-

- (i) पूर्णिमायां पूर्ण+इन्दुः भवति ।
- (ii) हिमालयः नग+इन्द्रः कथ्यते ।
- (iii) वीर+इन्द्रः एव विजयी भवति ।
- (iv) परम+ईश्वरः सर्वत्र अस्ति ।
- (v) कामदेवः रूप+इन्द्रः कथ्यते ।
- (vi) महा+ईशः कुत्र गच्छति ?

अधोलिखितान् संवादान् मञ्जूषायां प्रदत्तशब्दैः पूरयन्तु-

1

- पिता - त्वम् किम् (i) ..... ?  
 पुत्रः - लेखम् ।  
 पिता - लेखं, परं कस्मिन् विषये ?  
 पुत्रः - पर्यावरणस्य विषये ।  
 पिता - किमर्थम् ?  
 पुत्रः - श्वः मम विद्यालये भाषणस्य (ii) ..... अस्ति ।  
 पिता - ओह। विषयः तु अत्युत्तमः ।  
 पुत्रः - आम्। अद्य औद्योगिकविकासः तु (iii) ..... एव ।  
 पिता - आम् ।  
 पुत्रः - औद्योगिकविकासेन वातावरणम् अपि (iv) ..... भवति ।  
 पिता - एतद् तु सत्यम् ।  
 पुत्रः - अतः पर्यावरणस्य विषये (v) ..... अनिवार्या ।



Read,

Relax, &

Renew



## Part A: Multiple Choice Questions (MCQs)

Choose the correct option.

1. Which of the following numbers is a perfect square?  
a) 50      b) 121      c) 63      d) 70
2. The square root of 196 is:  
a) 13      b) 14      c) 15      d) 16
3. The number of digits in the square root of 1444 is:  
a) 1      b) 2      c) 3      d) 4
4. Which of the following numbers is not a perfect square?  
a) 256      b) 100      c) 169      d) 243
5. If the square of a number is 2025, the number is:  
a) 45      b) 40      c) 50      d) 55

## **Part B: Short Answer Questions**

1. Write all perfect squares between 1 and 100.
2. Find the square root of 729 by prime factorization method.
3. Find the smallest number to be added to 1500 to make it a perfect square.
4. Is 1225 a perfect square? Verify using prime factorization.
5. Find the square root of 2.25.

## **Part C: Word Problems**

1. A square field has an area of  $625 \text{ m}^2$ . Find the length of its side.
2. A gardener has 784 plants and he wants to arrange them in a square. How many plants will be there in

## **Part A: Fill in the blanks**

1. The cube of 5 is \_\_\_\_\_.
2. The cube root of 27 is \_\_\_\_\_.
3. The cube of an even number is always \_\_\_\_\_.
4. A number having \_\_\_\_\_ zeros at the end is a perfect cube.
5. The smallest number to be multiplied with 1323 to make it a perfect cube is \_\_\_\_\_.

## **Part B: True or False**

1. Cube of a negative number is always negative.
2. Cube root of 1 is 0.
3. Cube of 10 is 1000.
4. Every perfect cube has a perfect



# **Class 8 Maths – Assertion and Reason Questions: Exponents and Radicals**

1. **Assertion:**  $(a^m)^n = a^{m+n}$

**Reason:** When raising a power to another power, the exponents are added.

a) Both Assertion and Reason are true, and the Reason is the correct explanation of the Assertion.

b) Both Assertion and Reason are true, but the Reason is not the correct explanation of the Assertion.

c) Assertion is true, but Reason is false.

d) Assertion is false, but Reason is true.

1. **Assertion:** The cube of any integer is always divisible by 8.

**Reason:** The cube of any even number is divisible by 8.

- a) Both Assertion and Reason are true, and the Reason is the correct explanation of the Assertion.
- b) Both Assertion and Reason are true, but the Reason is not the correct explanation of the Assertion.
- c) Assertion is true, but Reason is false.
- d) Assertion is false, but Reason is true.



1. **Assertion:** The square root of a number is always greater than or equal to zero.

**Reason:** The square root of any non-negative number is always non-negative.

a) Both Assertion and Reason are true, and the Reason is the correct explanation of the Assertion.

b) Both Assertion and Reason are true, but the Reason is not the correct explanation of the Assertion.

c) Assertion is true, but Reason is false.

d) Assertion is false, but Reason is true.

# ESTIMATING SQUARE ROOTS WORKSHEETS

Name :

Date :

Directions: Use your square root estimate skills and fill the blanks

$\sqrt{200}$  is between  and

$\sqrt{37}$  is between  and

$\sqrt{31}$  is between  and

$\sqrt{2}$  is between  and

$\sqrt{134}$  is between  and

$\sqrt{350}$  is between  and

$\sqrt{8}$  is between  and

$\sqrt{60}$  is between  and

$\sqrt{500}$  is between  and

$\sqrt{80}$  is between  and

$\sqrt{230}$  is between  and

$\sqrt{111}$  is between  and

$\sqrt{320}$  is between  and

$\sqrt{115}$  is between  and

$\sqrt{150}$  is between  and

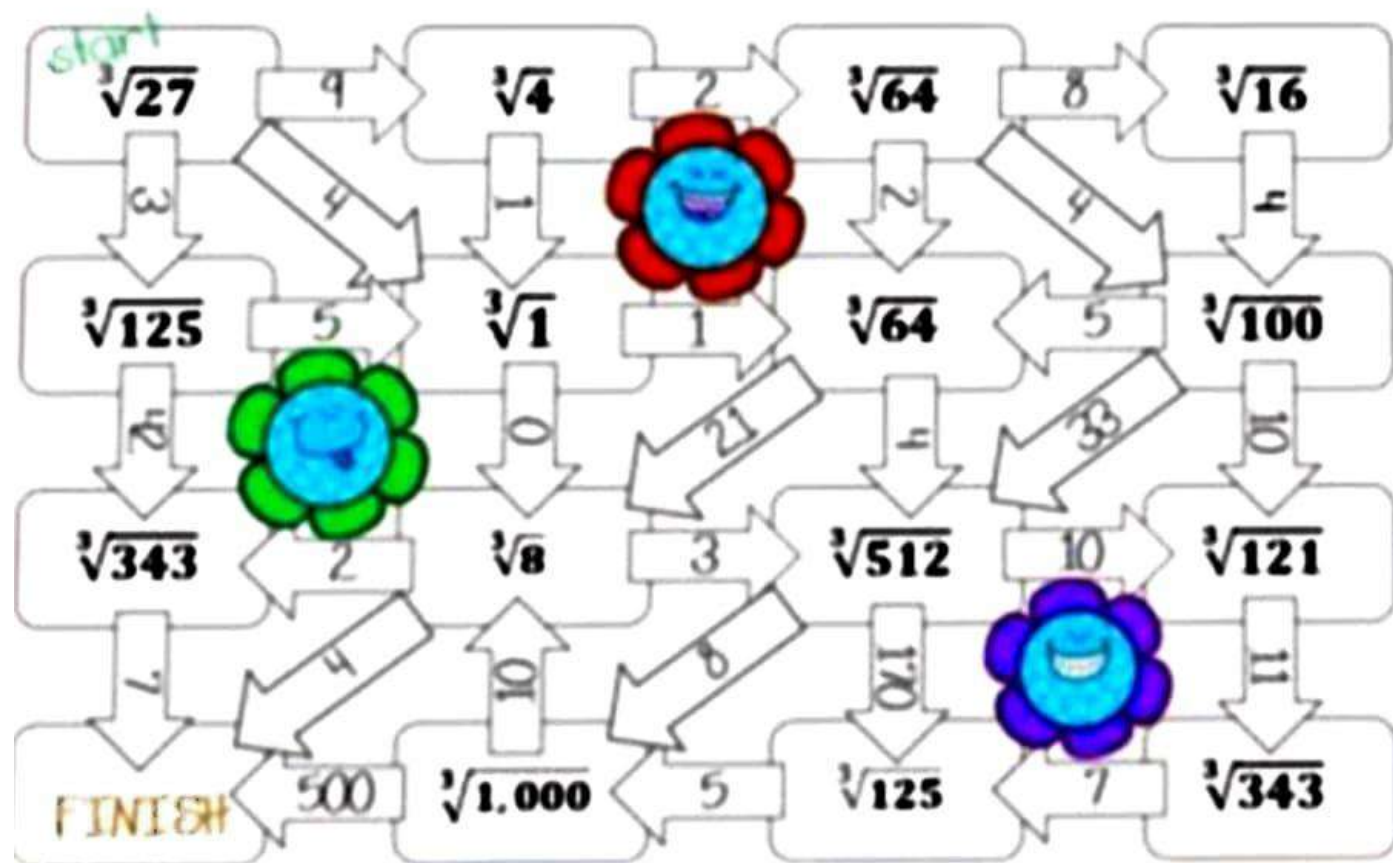
$\sqrt{5}$  is between  and

$\sqrt{70}$  is between  and

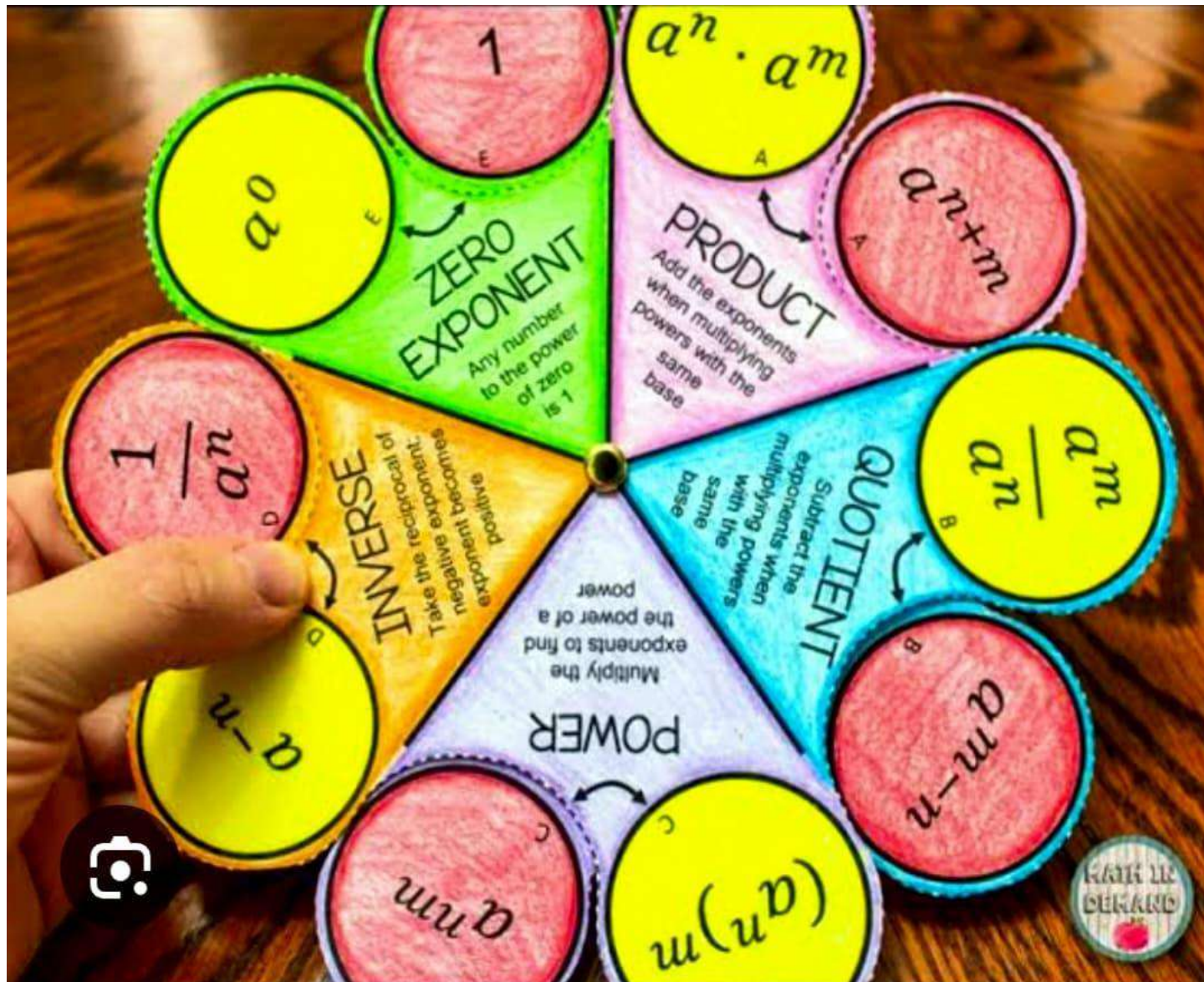
$\sqrt{90}$  is between  and

1. Fill in the blanks:
  - a)  $8 \times 8 \times 8 \times 8$  in exponential form with base 4 is \_\_\_\_\_.
  - b)  $64 \times 64$  in exponential form with base 4 is \_\_\_\_\_.
2. Convert the following radical forms to exponential forms:
  - a)  $\sqrt{101}$
  - b)  $\sqrt[7]{\left(\frac{53}{5}\right)^4}$
3. Solve:
  - a)  $\sqrt[3]{343^2}$
  - b)  $\sqrt[2]{81^3}$
4. Find the value:
  - a) 4<sup>th</sup> root of  $36^2$
  - b) 9<sup>th</sup> root of  $125^3$
5. Evaluate:
  - a)  $\frac{8^{-1} \times 5^3}{2^{-4}}$
  - b)  $(5^{-1} \times 2^{-1}) \times 6^{-1}$
6. Evaluate:
  - a)  $3 \times 16^{\frac{3}{4}}$
  - b)  $2 \times (27)^{\frac{-2}{3}}$
  - c)  $2 \times 9^{\frac{3}{2}} \times 9^{\frac{-1}{2}}$
7. Find the value of  $[5^2 + (12)^2]^{\frac{1}{2}}$
8. Find the value of x if:
  - a)  $2^x + 2^x + 2^x = 192$
  - b)  $8^{255} = (32)^x$
9. If  $4^x - 4^{x-1} = 24$ , then find the value of x
10. Evaluate (i)  $\left\{\left(\frac{1}{3}\right)^{-1} - \left(\frac{1}{4}\right)^{-1}\right\}^{-1}$  (ii)  $\left(\frac{5}{8}\right)^{-7} \times \left(\frac{8}{5}\right)^{-4}$

Move from one box to another box by solving the square root problems and following the answers. Correct answers lead to dead end.

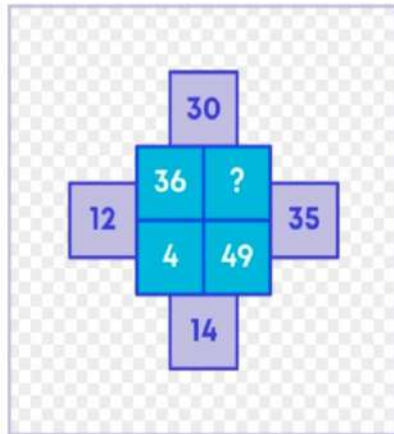








Countingwell



### HHW (PHYSICS).

Class:- VIII

1. Explain the effects of force. Describe how force can change the state of motion, Shape and direction of an object. Provide examples for each.
2. Explain how pressure varies with depth in liquids. Describe an experiment to demonstrate this concept.
3. How is pressure related to force and area? Design an activity to explain how this inverse relationship, between pressure due to a given force and area, is used in daily life.

### Biology

Q.1. Rahul observed cells from a leaf under a microscope .He noticed that some cells had a green pigment, while others did not. The cells with the green pigment were able to make their own food using sunlight.

Which cell organelle is responsible for the green pigment? write its function.

Q.2. Which cell organelle is known as -

- a) The powerhouse of the cell -
- b)The storehouse of the cell-
- c) The control house of the cell and why?

Q.3. Shashi observed an onion peel and a human cheek cell under a microscope. He noticed some differences in their structure. Based on your understanding explain what differences he might have observed .

Q.4. Make a chart or poster highlighting the function of all cell organelles.

Q.5. Make a model of plant or animal cell using clay and other craft materials. Label different cell organelles.

### **Chemistry:**

#### ***Conceptual Questions:-***

1. What are the different types of energy sources? Give examples.
2. What is the difference between renewable and non-renewable sources of energy?
3. What are the advantages and disadvantages of using fossil fuels as an energy source?

#### ***\*Analytical Questions:***

1. Analyze the benefits and limitations of using wind energy as a source of energy.
2. Evaluate the impact of fossil fuel consumption on the environment.
3. How can we conserve energy resources for future generations?

#### ***Application-Based Questions:-***

1. Suggest ways to reduce energy consumption in your daily life.
2. Develop a plan to promote the use of renewable energy sources in your community.

#### ***Activity based:-***

1. Create a poster on the importance of energy conservation.

### **Subject: \_\_\_\_SOCIAL SCIENCE**

#### **COMPETENCY BASED QUESTIONS**

Q1. Value of a forest

Forests are vital natural resources

- A) List three Important products that we directly obtain from forests.
- B) Explain two crucial ecological functions that forests perform for the environment,

beyond providing us with direct products

C) Imagine a situation where a large area of forest is cleared for building new road and some commercial establishments. Analyse the potential long term impacts of this deforestation on the local environment and the people living in the surrounding areas.

Q2. The idea of equality

The Indian constitution emphasises equality.

A) Give two examples from everyday life that demonstrate inequality in society. These example and be based on gender, religion, caste, or economic status.

B) How does the Indian constitution aim to address the issue of inequality? Mention two specific provisions or principles enshrined in the constitution that promote equality. Explain how each helps in achieving these goal.

C) Think about a situation your community where you feel a certain group is not being treated equally. Suggest one way in which the principles of the Indian constitution could be used to advocate for their rights and ensure fairer treatment.

#### SOURCE BASED QUESTIONS

1. "The constitution of India says that our country is Secular." This means that the government does not have an official religion. it treats all religions equally and respects the freedom of every citizen to follow any religion they choose, or even not to follow any religion at all."

Q1. Define secularism

Q2. What freedom does the constitution give to the citizens regarding religion?

#### MAP SKILL

On an outline political map of the world, locate the following countries from whom India adopted varied features enshrined in our Constitution

A) United Kingdom

B) United States of America

C) Canada

D) Russia

E) Ireland



F) France

Prepare the following topics of DECLAMATION COMPETITION (assessment 5 marks)

A) If India had a rigid constitution, what would have been the impact on regionalism?

B) If there were no rules and regulations in the school.

Value based questions

A) What steps would you suggest to protect old monuments of your state/ country?

B) As a vigilant citizen of India how can you create awareness among the people to protect old buildings and monuments.

C) As a young Indian how can you contribute in reversing adverse impact of human interference on environment?

ACTIVITY

A) PASTE PICTURES OF THE MEMBERS OF THE CONSTITUENT ASSEMBLY

(at least 10) write few sentences about them

B) Prepare a chart showing the classification of resources. Also give suitable examples of each category or resource.

NOTE: HOLIDAY HOMEWORK MUST BE DONE IN A SEPARATE COPY

### **Subject- COMPUTER**

Computer (ICT)

Learn Chapter 1: Activity

Make a Chart on: Types of Networks (LAN, MAN, WAN)