

केन्द्रीय विद्यालय आई.आई.टी.तिरुपति
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AUTUMN BREAK HOLIDAYS HOMEWORK (2026-27)

Class: VI

Subject: Maths

1. Write number Sequences: a) odd numbers b) even numbers c) Triangular numbers d) Squares
e) Cubes f) Virahanka numbers g) Powers of 2 h) powers of 3
2. Define a point, Line segment, line and ray. Draw and label a line segment AB, a ray CD, and line PQ.
3. Draw an acute angle, a right angle, an obtuse angle and a straight angle.
4. Check whether 4,536 is divisible by 2,3,5,9 and 10.
5. Write first ten multiples of 7.
6. What is data? Give two examples of data Collected in a daily life.
7. Define Prime numbers and Composite numbers with examples.
8. Write all prime numbers between 1 and 100
9. Find the factors of 24, 25, 36, and 18.
10. Define perimeter, and find the missing terms: a) Perimeter of a rectangle = 175 cm, b=20 cm, l= ____
b) perimeter of a square = 144 Cm, Side: _____

Subject: Science

1. What is Science? Explain its importance in everyday life.
2. Give three examples of scientific discoveries or inventions that have improved our lives.
3. Differentiate between herbs, shrubs, and trees with two examples of each.
4. Difference between living things and non-living things.
5. what is habitat? give two examples.
6. Name the major nutrients required by our body.
7. Why is water essential for good health?
8. Why should magnets be handled and stored carefully?
9. Convert the following: a) 3 m into cm b) 450 cm into m c) 2km into cm d) 750 mm into cm
10. what is motion? Mention types of motions with example.
11. what is the difference between hard and soft materials?

Project Work

- 1) Draw a healthy meal plate and label the different food groups.
- 2) Identify ten objects and classify them according to their material and properties.

Subject: Hindi

- १) शरद ऋतु की छुट्टियों पर मित्र को पत्र लेखन।
- १) अनुच्छेदलेखन - शरद ऋतु की छुट्टियाँ।
- ३) दशहरा पर दो मित्रों के बीच संवादलेखन।
- ४) 1-50 Numbers in Hindi.

Subject: Sanskrit

1. शरीराङ्गाणां नामानि। (Page no. 158)
 2. Direction in Sanskrit (Page no. 63)
 3. Drawing and colouring the flowers (Page no. 97)
 4. Lesson 10. बुद्धिः सर्वार्थसाधिका
- Text book exercises (Page no. 110-111)
5. खाद् धातुरूपाणि (खादति)

Subject - English

1. Write a paragraph on "Importance of Trees".(100-120 words)
2. You are the Cultural Secretary of your school. Your school is organizing an Inter-House Singing Competition for students of Classes VI–VIII. **Draft a notice** within 120 words informing students about the competition. Mention the date, time, venue, eligibility and last date for registration.

Subject - Social Science

Write the answers of the following questions: (in your [S.SC](#) NOTEBOOK)

1. Name two famous waterfalls found on plateaus.
2. How are floodplains formed?
3. What are the major occupations of people living in plains?
4. What is a confluence?
5. What is the role of rivers in the Plains?

Read the whole chapter "LANDFORMS AND LIFE" carefully.

VE Projects -

1. Write any 2 crops and any 2 fruits like pg 43 & 44 from VE TEXTBOOK in A4 size paper.
2. Make any 2 models from pg 63,64,66,68 & 71 and write the process of making of your models in A4 size paper.

SUBJECT: ARTIFICIAL INTELLIGENCE

CHOOSE THE CORRECT ANSWER

1. Who asked the famous question, “Can machines think?”

- (a) John McCarthy (b) Alan Turing (c) Charles Babbage (d) Ada Lovelace

2. Which type of intelligence helps a class leader to understand and communicate well with others?

- (a) Naturalistic Intelligence (b) Intrapersonal Intelligence (c) Interpersonal Intelligence (d) Artificial Intelligence

3. Which type of Machine Learning uses labelled data to make predictions?

- (a) Unsupervised Learning (b) Reinforcement Learning (c) Supervised Learning (d) Deep Learning

4. Data made up of numbers that can be counted or measured is called _____.

- (a) Text Data (b) Image Data (c) Video Data (d) Numerical Data

5. A table arranges data in _____.

- a) Pictures and sounds (b) Rows and columns (c) Videos (d) Paragraphs

FILL IN THE BLANKS

1. _____ is the ability to understand and identify plants, animals and nature.

2. _____ is data that already has a predefined label or tag attached to it.

3. Data about login attempts and network activity can help enhance _____.

4. Data helps us in _____ making.

5. The four steps of organising data are Classification, Structuring, Labelling and _____.

MATCH THE FOLLOWING

Column A	Column B
1. Reinforcement Learning	(a) CCTV footage
2. Text Data	(b) A photo of a pet
3. Image Data	(c) Father of AI
4. Video Data	(d) A written address
5. John McCarthy	(e) Trial and error

STATE TRUE OR FALSE

1. Machine Learning is a branch of Artificial Intelligence.

2. AI Winter was a period when AI development speed up.

3. Unsupervised learning finds hidden patterns and groupings in unlabelled data.

4. Classification means saving data in a safe place

5. Text data consists of pictures and photos.

1. What is Intelligence?
2. When did AI become a formal field of study?
3. What is classification of data?
4. Write any four differences between Human Intelligence and Artificial Intelligence.
5. Write the stages of the evolution of AI.
6. Mention any two reasons why data is important to us.
7. What is collecting data? Name the four sources of data.
8. What is organising data? What are the four steps of organising data?
9. What is Machine Learning? Explain the types of Machine Learning.
10. What is data? Explain different types of data.
11. Write any five differences between Automation and Artificial Intelligence.