

NAV JEEWAN MODEL SCHOOL

SUMMER VACATION

**“Enjoying every second under the
blue sky and bright sun”**



Holidays are time when you can connect with your child in many ways. As parents are the first and the most important teacher for a child, we can encourage our child to participate in many educational activities at home and promote his/her quest to learn. Working together will not only help your child to build, learn and develop his/her skills but also strengthen your bond with him/her.

GENERAL INSTRUCTIONS

Instructions for students

Try to do your vacation work by yourself. ☞ Use separate Note book for each subject.

Writing should be very good and neat.

Do all work under the guidance of your parents and guardians ☞ Do all work with date & day.

Try to do your written work regularly to enhance your writing power.

Pay special attention towards your health and caring.

Don't Play in the sunshine or on hot places. ☞ Try to Pray God Daily.

Instructions for Parents

Holiday homework has to be done under the parental guidance.

Kindly complete and send the homework in a paper bag on the first day after the summer break.

Make your ward read resource books.

Make your ward learn and remember his/her parents mobile /landline number, house address etc, to make him/her independent and secure.

Do not miss to take your child , outdoors in the evening.

Do any creative act, which you are good at with your ward and send it to school after vacations. Fix up a time table for your ward to organize his/her daily routine like, watching television, playing with friends, studying etc.

Make your child responsible by assigning some of the household responsibilities to him/her like, watering plants, arranging the dining table, organizing his/her room and cupboards, fill the empty water bottles and put them in refrigerator. Above mentioned guidelines will help your child to become a smart and an active learner.

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SOCIAL SCIENCE

*Complete your s.st notebook.

* Revise Unit Test syllabus .

* Practice map at home .

- Read about dictatorship and democratic type of Government in the world and compare them with your point of view.
- 'VOICE FOR VOILENCE ' read any such type of case and summarize in your own words
- Draw a poster showing the harmful effects of war and the importance of peace

● **Worksheet-Inside Our Earth**

1. What is the innermost layer of the Earth called?

- a) Crust
- b) Mantle
- c) Outer Core
- d) Inner Core

2. The Earth's crust is made up of:

- a) Solid rock
- b) Molten metal
- c) Gas
- d) Water

3. Which layer of the Earth is liquid?

- a) Crust
- b) Mantle
- c) Outer Core
- d) Inner Core

4. The thickest layer of the Earth is the:

- a) Crust
- b) Mantle
- c) Outer Core
- d) Inner Core

5. Which layer is responsible for Earth's magnetic field?

- a) Crust
- b) Mantle
- c) Outer Core
- d) Inner Core

6. The crust and upper part of the mantle form the:

- a) Lithosphere
- b) Asthenosphere
- c) Mesosphere
- d) Magnetosphere

7. What is the temperature like in the Earth's inner core?

- a) Cold
- b) Warm
- c) Very hot
- d) Freezing

● Assertion-Reasoning Worksheet

Instructions: For each of the following statements, read the Assertion (A) and Reason (R) carefully. Then choose the correct option:

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is NOT the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

Part 1: Inside Our Earth (Introduction)

1. Assertion (A): The Earth's outer core is liquid.

Reason (R): The outer core is made up of molten iron and nickel, which remain liquid due to high temperature and pressure.

2. Assertion (A): Seismic waves help scientists study the Earth's interior.

Reason (R): Seismic waves change speed and direction when they pass through different layers of the Earth.

3. Assertion (A): The Earth's magnetic field is generated by the solid inner core.

Reason (R): The movement of liquid iron in the outer core creates the magnetic field.

Part 2: How to Study Medieval History

4. Assertion (A): Primary sources are the most reliable materials for studying medieval history.

Reason (R): Primary sources provide firsthand information created during the period being studied.

5. Assertion (A): Historians rely only on written records to understand medieval history.

Reason (R): Archaeological findings are not important in historical studies.

6. Assertion (A): Cross-referencing multiple sources helps reduce bias in historical study.

Reason (R): Different sources may offer varying perspectives, helping historians build a balanced view.

● Case Study Worksheet

Part 1: Democracy and the Need for It

Case Study:

In a country called Freedonia, a single ruler made all decisions without consulting the people. Over time, people felt unheard, laws were unfair, and protests increased. Eventually, the country adopted a democratic system where citizens vote for their leaders and have a say in laws.

Questions:

1. Why do you think people in Freedonia wanted a change from a single ruler to democracy?
2. How does democracy help ensure fairness and justice in society?
3. What might be some challenges Freedonia faces as it transitions to democracy?
4. Can you think of ways citizens can participate in a democracy beyond voting?

Part 2: Inside Our Earth

Case Study:

Scientists used seismic waves to study an earthquake in a region. They found that waves slowed down in some areas and sped up in others, indicating different materials underground.

Questions:

1. Why do seismic waves change speed when passing through different layers of the Earth?
2. How does studying seismic waves help scientists understand the structure inside the Earth?
3. What could happen if the Earth's mantle moves suddenly? How might this affect people on the surface?
4. Why is it important for scientists to study the Earth's interior?

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Part A: Fill in the Blank

Write the correct word in the blank space.

1. 1. A system in which citizens vote to elect their leaders is called a _____.
2. 2. A government ruled by a king or queen is a _____.
3. 3. A type of government with total control by one person is known as an _____.
4. 4. The absence of government is called _____.
5. 5. The ability to make and enforce laws is known as _____.
6. 6. Governments collect _____ to fund public services.
7. 7. The set of laws and principles that guide a country is called its _____.
8. 8. Providing protection and maintaining order is a key role of _____.
9. 9. A government where power lies with elected representatives is a _____.
10. 10. The principle of fair treatment under the law is known as _____.

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Part B: Multiple Choice

Circle the correct answer.

11. 11. Which form of government is based on rule by the people?

- A) Monarchy
- B) Democracy
- C) Dictatorship
- D) Anarchy

12. 12. What is essential for a government to function?

- A) Chaos
- B) Power
- C) Isolation
- D) Silence

13. 13. What does a welfare system provide?

- A) Entertainment
- B) Roads
- C) Public aid and support
- D) Weapons

14. 14. What do governments organize to choose leaders?

- A) Parades
- B) Protests
- C) Elections
- D) Trials

SCIENCE

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1. Makeup project file on recent India Pakistan war like situation.

How did the recent India Pakistan war like situation begin?

What is mission Sindoor and why is it important?

What preparations were made by the Indian Government and military?

What role did Indian citizen play during the situation?

What precaution should student and young people take during War Like situation.

What activity are conducted in your school during war like situation?

2. Makeup project file on the thermometer.

What is the thermometer?

Type of thermometer (clinical and laboratory).

How a clinical thermometer works.

Safety precaution while using a thermometer.

Draw and label diagrams of both types.

Make a project file on Thermometer

- What is a thermometer?
 - Types of thermometers (clinical and laboratory).
 - How a clinical thermometer works.
 - Safety precautions while using a thermometer.
 - Draw and label diagrams or paste image the diagram of both types.
-

Worksheet 1: Heat and Fluids – Basics

Section A: One-word Answers (5 x 1 = 5)

1. Device used to measure temperature.
2. A material that is a poor conductor of heat.
3. Gas that does not allow conduction.
4. State of matter with no definite shape but definite volume.
5. Temperature at which ice melts in °C.

Section B: MCQs (5 x 1 = 5)

6. The transfer of heat in solids occurs by:

a) Conduction b) Convection c) Radiation d) None

1. Convection occurs in:

a) Solids b) Liquids and gases c) Vacuum d) All

2. Radiation travels:

a) Through solid b) Through vacuum c) Through liquids d) None

3. Good conductor of heat among the following:

a) Water b) Mercury c) Wood d) Plastic

4. Heat always flows from:

a) Cold to hot

b) Hot to cold

c) High pressure to low

d) Low pressure to high

Section C: Fill in the Blanks (5 x 1 = 5)

11. Heat is a form of _____.

12. Liquids expand on _____.

13. The boiling point of water is _____ °C.

14. Thermos flasks prevent heat loss using _____.

15. The unit of temperature in SI is _____.

Section D: Match the Following (5 x 1 = 5)

Column A	Column B
16. Thermometer	a) 100°C
17. Freezing point	b) Mercury
18. Boiling point of water	c) 0°C
19. Device with kink	d) Clinical use
20. Convection occurs in	e) Liquids/Gases

Worksheet 2: Thermometers and Temperature

Section A: One-word Answers (5 x 1 = 5)

- Liquid used in thermometers.
- Temperature at which water boils in °F.
- Unit of heat.
- Instrument used to measure fever.
- Scale that uses freezing and boiling point as 0 and 100.

Section B: MCQs (5 x 1 = 5)

6. Which of these is used to measure body temperature?

- Laboratory thermometer
- Clinical thermometer
- Galileo thermometer
- None

1. Thermometers should be read keeping:

- Above eye level
- At eye level
- Below eye level
- None

2. Alcohol is not preferred in thermometers because it:

- Is colorless
- Evaporates fast
- Is volatile
- All of these

3. Which of these shows correct boiling point of water in Kelvin?

- 273 K
- 273 + 100 K
- 0 K
- 212 K

4. Clinical thermometer generally has a range of:

- 0–100°C
- 94–105°F
- 35–42°C
- 10–50°C

Section C: Fill in the Blanks (5 x 1 = 5)

- The _____ thermometer is used in laboratories.
- Mercury does not stick to the walls of _____.
- _____ is the unit of temperature used in physics.
- A thermometer has a _____ to prevent mercury from falling back.
- _____ is the temperature where water freezes.

Section D: Match the Following (5 x 1 = 5)

Column A	Column B
16. 100°C	a) Body temperature
17. 212°F	b) Boiling point
18. 98.6°F	c) Room temperature
19. 25°C	d) Freezing point
20. 0°C	e) Water boils

Worksheet 3: Heat Transfer

Section A: One-word Answers (5 x 1 = 5)

1. Transfer of heat without medium.
2. Mode of heat transfer in solids.
3. Mode of heat transfer in fluids.
4. Process responsible for sea breeze.
5. Transfer of heat from Sun to Earth.

Section B: MCQs (5 x 1 = 5)

6. Conduction is best in:

a) Water b) Air c) Copper d) Plastic

1. Radiation is fastest in:
a) Solids b) Liquids c) Vacuum d) Gases
2. The primary source of energy on Earth is:
a) Moon b) Earth core c) Sun d) Fire
3. The vacuum in thermos flask prevents:
a) Radiation b) Conduction c) Convection d) All
4. Transfer of heat through fluids is called:
a) Conduction b) Convection c) Radiation d) Expansion

Section C: Fill in the Blanks (5 x 1 = 5)

11. _____ is the process that transfers heat by waves.
12. Dark surfaces _____ heat better.
13. Silvered surfaces _____ heat radiation.
14. Sea breeze blows from _____ to _____.
15. Air gets heated by _____ from land.

Section D: Match the Following (5 x 1 = 5)

Column A	Column B
16. Conduction	a) Solids
17. Convection	b) Liquids and gases
18. Radiation	c) Vacuum
19. Silvered surface	d) Reflects radiation
20. Black surface	e) Absorbs heat

Worksheet 4: Practical Applications & Concepts

Section A: One-word Answers (5 x 1 = 5)

1. Color that absorbs the most heat.
2. Device that uses vacuum to reduce heat transfer.
3. Gas used in thermometers (rarely).
4. Unit used to measure heat energy.
5. Thermometer used in medical use.

Section B: MCQs (5 x 1 = 5)

6. What causes wind on Earth?
a) Rain b) Clouds c) Uneven heating d) None
1. In sea breeze, wind moves:
a) From sea to land b) From land to sea c) Randomly d) Circular
2. Thermos flask uses which of the following?
a) Radiation only b) Convection only c) All methods d) All are reduced
3. Color recommended for summer wear:
a) Black b) Blue c) White d) Red
4. Which is not a method of heat transfer?
a) Fusion b) Conduction c) Convection d) Radiation

Section C: Fill in the Blanks (5 x 1 = 5)

11. Thatched roofs keep houses _____ in summer.
12. Water is heated in a vessel through _____.
13. We get heat from the Sun by _____.
14. _____ is a poor conductor of heat.
15. _____ thermometer is used by doctors.

Section D: Match the Following (5 x 1 = 5)

Column A	Column B
16. Sea breeze	a) Daytime breeze
17. Land breeze	b) Nighttime breeze
18. Thermos flask	c) Reduces heat loss
19. Radiation	d) No medium needed
20. Clinical thermometer	e) Kink present

HINDI



न1. दिए गए चित्र के माध्यम से कहानी बनाएं।

प्रश्न 2. अपने प्रिय त्योहार की फोटो चिपकाइए और उसके बारे में 10 पंक्तियाँ लिखिए।

प्रश्न 3. 'गर्मी की छुट्टियाँ' पर 15 पंक्तियों का अनुच्छेद लिखिए।

प्रश्न 4. अपनी पसंद की एक कविता याद करिए और उसकी फोटो या चित्र बनाइए।

प्रश्न 5. कृषि अनुसंधान केंद्र क्या है। इससे आम लोगों को किस तरह लाभ होता है, पता कीजिए।

प्रश्न 6. पर्यावरण पर स्लोगन पोस्टर बनाएँ।

प्रश्न 7. अपने परिवार के बड़ों का साक्षात्कार लीजिए।

अपने दादा-दादी या माता-पिता से 5 सवाल पूछिए और उनके उत्तर लिखिए।

जैसे: आपको कौन-सा खेल पसंद है?

आपके स्कूल का नाम क्या था?

आपको क्या व्यंजन पसंद है?

प्रश्न 8. भारत और पाकिस्तान के बीच में हुए युद्ध में शांति का क्या महत्व अपने शब्दों में लिखो।

प्रश्न 9 दिए गए प्रश्नों के सही उत्तर लिखें।

1: 'अग्नि' शब्द किस स्रोत का है?

- A) तद्भव
- B) तत्सम
- C) देशज
- D) विदेशी

उत्तर :

2: 'आग' शब्द किस स्रोत का है?

- A) तत्सम
- B) तद्भव
- C) देशज
- D) विदेशी

उत्तर :

3: 'खिड़की' शब्द किस स्रोत का है?

- A) तत्सम
- B) तद्भव
- C) देशज
- D) विदेशी

उत्तर :

4: 'पुस्तकालय' शब्द किस रचना का उदाहरण है?

- A) योगिक शब्द
- B) रूढ़ शब्द
- C) उपसर्गयुक्त शब्द
- D) प्रत्यययुक्त शब्द

उत्तर :

5: 'मिठाई' शब्द किस रचना का है?

A) योगिक शब्द

B) प्रत्यययुक्त शब्द

C) तत्सम शब्द

D) देशज शब्द

उत्तर :

6: 'जल' और 'पानी' आपस में कौन-से शब्द हैं?

A) विलोम शब्द

B) पर्यायवाची शब्द

C) अनेकार्थी शब्द

D) तद्भव शब्द

उत्तर

7: 'धन' शब्द का विलोम शब्द क्या है?

A) पैसा

B) गरीब

C) दरिद्रता

D) संपत्ति

उत्तर :

8: 'एक अर्थ रखने वाले शब्द' को क्या कहते हैं?

A) अनेकार्थी

B) पर्यायवाची

C) एकार्थी

D) तत्सम

उत्तर :

9: जो शब्द अपने रूप बदलते हैं, उन्हें क्या कहते हैं?

A) विकारी शब्द

B) अविकारी शब्द

C) देशज शब्द

D) योगिक शब्द

उत्तर :

10:निम्न में से कौन-सा अविकारी शब्द है?

A) और

B) राम

C) पढ़ना

D) सुंदर

उत्तर :

Sanskrit

कक्षा --सप्तमी

ग्रीष्मकालीन गृह कार्य

विषय संस्कृत

प्रश्न -1- भू, गम् धातु के रूप तीनों लकारों में लिखो हुए याद करो।

प्रश्न -2-पर्यावरण शुद्धि में वृक्ष के योगदान पर शब्द भाषा में पांच वाक्य लिखिए तथा चित्र भी बनाया।

प्रश्न -3-पाठ -3-,स्वच्छ भारत ,एव किताब कार्य याद करो।

प्रश्न -4-

गोल में दिए गए शब्दों के पर्याय मञ्जूषा में से छोटकर लिखिए।

वायुः	वह्निः	अम्बु	चीराणि	अग्निः	समीरः	अनलः	तोयम्
दहनः	पटानि	पवनः	नीरम्	वस्त्राणि	जलम्	अम्बराणि	अनिलः
पावकः	मारुतः	आपः	वासांसि				

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पत्राणि , सैनिकौ , खगाः , नासिकाः , धनम् , कलिकाः , पुस्तकम् , पुष्पम् ,
छात्रौ , शिक्षकः , शुकः , कन्या , गायिका , चक्रे , बाला

स्त्रीलिंगम्	पुंलिंगम्	नपुंसकलिंगम्

प्रश्न २. अधोलिखित वाक्यानाम् संस्कृतभाषायां अनुवादः कार्यः ।

(निम्न वाक्यों को संस्कृत में लिखिये)

➤ छात्रा खेलती है।

➤ सैनिक रक्षा करता है।

➤ राजीव और संजय दौड़ते हैं।

➤ फल गिरता है।

➤ बालिका नृत्य करती है।

प्रश्न ३. "त्रिवर्णः ध्वजः" इति विषयमाधारीकृत्य पंच-वाक्यानि
रुचिरापाठ्यपुस्तकात् लिखत ।

("तिरंगा झण्डा" इस विषय पर संस्कृत में पाँच वाक्य रुचिरा पाठ्यपुस्तक से देख
कर लिखिए ।)

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प्रश्न ४. वचन-परिवर्तनम् कुरुत ।

(निम्न वाक्यों को एकवचन से बहुवचन/बहुवचन से एकवचन में बदलिये)

एकवचनम्	बहुवचनम्
सः पठति	
बालकः गच्छति	
	पत्राणि पतन्ति
कलिका विकसति	
	महिलाः पचन्ति

प्रश्न ५. वाक्यम् पूरयत । (रिक्तस्थान भरकर वाक्य पूरा कीजिये)

✚ अध्यापिकाः _____ । (वद्, लट् लकारे)

✚ फलम् _____ । (पत्, लट् लकारे)

✚ पुष्पाणि _____ । (विकस्, लट् लकारे)

✚ सूर्यः _____ । (उदय्, लट् लकारे)

✚ बालिका _____ । (क्रीड्, लट् लकारे)

गृहकार्य में दिये गये इन सभी अभ्यास प्रश्नों को अपनी संस्कृत की पुस्तिका में लिखें।

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MATHS

Q1. Do chapter exercise and multiple choice questions of ch1 and 2 in your holiday homework notebook.

Q2. Activity based on roll no.

Task 1: Explore symmetry in everyday objects, such as letters of the alphabet, kitchen utensils, objects from home, school or playground equipments. You can take coloured printouts of symmetrical objects from your surroundings and create a colourful collage on A3 size sheet showcasing the mathematical beauty of everyday life. Please keep in mind that there should be no gaps between the pictures.

(Rollno :-1 to 12)

Task 2: Create a beautiful colorful artwork on A4 size sheet made entirely from different Mathematical shapes which will be a canvas of your creativity, where you'll cut out different shapes from colored papers and arrange them to make stunning artworks. Just like Kandinsky (Wassily Kandinsky was known as a pioneer of abstract painting), you'll explore how colors and shapes can come together to create harmonious and eye-catching compositions.

(Rollno :-13 to 25)

Task3: Interview your classmates and gather insights (30 students) on their favorite destinations among Jaipur (The Pink City), Jodhpur (The Blue City), Udaipur (The White City), Vrindavan (The Yellow City), and Amritsar(The Golden City). Create a frequency distribution table on an A4 size sheet according to the data collected. Then, create a visually attractive bar graph in which you shall depict the number of students on y-axis and favourite destinations on x-axis. Prepare the bar graph on an A3 size sheet and colour the bars according to each city's characteristic color. In addition to this you can also illustrate the special attractions of each of the places in your presentation.

(Rollno:-26 onwards)

Q3.Do these worksheet in your holiday homework notebook.

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1. A man travelled 30 km east of a place A and reached B. From B he travelled 60 km west of B and reached C. Find the distance of C from A.
2. A man has Rs. 20,000 in his account in a bank. He withdraws Rs. 3000 per month for the first two months and deposits double of this amount on third month. What will be the balance in his account after 3 months?
3. Verify $a - (-b) = a + b$ for the following values of a and b. i) $a = -17$ $b = +15$ ii) $a = 50$ $b = 21$
4. Use $>$, $<$ OR $=$ symbols in the blank space in each of the following
 - a. $(-3) - (-5)$ $(-4) + (-9)$
 - b. $71 - 2 - 31$ $71 - 2 + 31$
 - c. $39 + (-35) - (58)$ $37 + (-11) - (+26)$
 - d. $23 + (-8) - 7$ $9 - 13 + 12$
5. The temperature at a place rises from -20°C to 20°C . What is the rise in temperature?
6. A place P is 82 m above the Sea level and another place is 13 m below the Sea level. What is the distance between the two places?
7. Write down a pair of integers whose
 - i) sum is -6
 - ii) difference -8
 - iii) difference 3
 - iv) sum 0
8. Write a negative integer and a positive integer whose
 - a) sum -9
 - b) difference -4
 - c) sum 0
9. Find the value of each of the following products
 - i) $(-3) \times 15$
 - ii) $4 \times (-13)$
 - iii) $(-23) \times (-31)$
 - iv) $(-3) \times (-2) \times 7$
 - v) $2 \times (-3) \times (-1) \times (-5)$
 - vi) $(-259) \times (-51) \times 0$
 - vii) $(-8) \times 2 \times (-3) \times 5 \times (-1)$
 - viii) $(-2) \times (-4) \times 0 \times (-6) \times (-8)$
 - ix) $(-5) \times (-3) \times (-4) \times (-6) \times (-7)$
10. Verify the following
 - i) $(-25) \times [(-7) + (-15)] = [(-25) \times (-7)] + [(-25) \times (-15)]$
 - ii) $(-7) \times [(-8) + 9] = [(-7) \times (-8)] + [(-7) \times 9]$
11. What will be the sign of the product $a \times b$ if
 - i) a is the product of 5 positive integers and b is the product of 9 negative integers.
 - ii) a is the product of 6 positive integers and b is the product of 8 negative integers.
 - iii) a is positive and b is the product of 50 negative integers.
12. Find the value of a if product of a with -1 is i) 200 ii) 0 iii) -300

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Verify $a - (-b) = a + b$ for the following values of 'a' and 'b'.

- (a) $a = 75,$ $b = 84$
(b) $a = 118,$ $b = 125$
(c) $a = 25,$ $b = 30$

1) Write down a pair of integers whose

- (a) Sum is -3
(b) Sum is 0
(c) Difference is 2
(d) Difference is -5

2) Verify the following :

- a) $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$
b) $15 \times [6 + (-3)] = [15 \times 6] + [15 \times (-3)]$
c) $(-15) \times [(-8) + (-6)] = [(-15) \times (-8)] + [(-15) \times (-6)]$

3) Evaluate :

- a) $(-100) \div 5$
b) $(-36) \div (-4)$
c) $(-41) \div [(-40) + (-1)]$
d) $0 \div (-18)$
e) $[(-36) \div 12] \div 3$
f) $(-50) \div (50)$

g) $60 \div (-6)$

h) $(-48) \div (-48)$

i) $(-13) \div (13)$

4) Do as directed :

1. In a test (+5) marks are given for every correct answer and (-2) marks are given every incorrect answer.

- (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
(ii) Jay also answered all the questions and scored (-12) marks though he got 4 correct answers. How many incorrect answers had they attempted ?

5) In a class test containing 15 questions 4 marks are given for every correct answer and (-2) marks are given for every incorrect answers :

- i) Gurupreet attempts all question but only 9 of her answers are correct. What is her total score ?
ii) One of her friends gets only 5 answers correct. What will be her score ?

6) Write five pairs of integers (a, b) such that $a + b = -6$.

7) Find

- i) $(-3) \times (-6) \times (-2) \times (-1)$
ii) $(-12) \times (-11) \times (10)$
iii) $(-320) \times (-1)$
iv) $(-18) \times 0 \times (-16)$
v) $9 \times (-5) \times (-3)$
vi) $(-41) \times 10$
vii) $(-21) \times (-30)$
viii) $(-1) \times 225$

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ix) $(-22) \times (-1)$

x) $(-20) \times (-2) \times (-5) \times 7$

Use the sign $>$, $<$, $=$

i) $29 + (-18) - 15$ $36(-15) + 28$

ii) $-241 + 76 + 86$ $-399 + 163 + 45$

iii) $(-3) + 7 - (-18)$ $18 - 9 + (-6)$

iv) $(-8) + (-6)$ $(-8) - (-6)$

v) $(-18) + (18)$ $(-31) + (31)$

vi) $86 - 45 + 23$ $-36 - (20) - (-8)$

10) In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If Jack's scores in five successive rounds were 65, -10, -15, 20, 30. What was his total score at the end.

11) In a quiz, team A scored -50, 30, 0 and team B scored 60, 30, -40 in three successive rounds. Which team scored more?

12) The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at what time would the temperature be 8°C below zero? What would be the temperature at mid - night?

13) Replace the blank with an integer to make it a true statement.

a) $\times (-12) = -60$

b) $5 \times$ $= -35$

c) $(-8) \times$ $= 72$

d) $\div (-3) = 9$

e) $(-20) \div$ $= 5$

1. Simplify, $7\sqrt{48} - \sqrt{72} - \sqrt{27} + 3\sqrt{2}$

(a) $25\sqrt{3} - 13\sqrt{2}$

(b) $5\sqrt{3} - 3\sqrt{2}$

(c) $25\sqrt{3} - 9\sqrt{2}$

(d) $25\sqrt{3} - 3\sqrt{2}$

2. Find two irrational numbers between 5 and 8.

(a) $\sqrt{36}, \sqrt{25}$ (b) $\sqrt{32}, \sqrt{33}$ (c) $\sqrt{36}, \sqrt{49}$ (d) $\sqrt{24}, \sqrt{33}$

3. Simplify, $4\sqrt{12} - \sqrt{75} - 7\sqrt{48}$

(a) $25\sqrt{3}$

(b) -25

(c) $5\sqrt{3}$

(d) $-5\sqrt{3}$

4. Which of the following rational numbers lies between $-4/5$ and $-7/5$?

(a) $-36/45$

(b) $-35/45$

(c) $-39/45$

(d) $-63/45$

5. The conjugate of $\sqrt{x} - \sqrt{y}$ is?

(a) $\sqrt{x} + y$

(b) $\sqrt{x} + \sqrt{y}$

(c) $x + \sqrt{y}$

(d) $x - y$

6. The value of $[2 - 3(2 - 3)^{-1}]^{-1}$ is?

(a) $-1/5$

(b) $1/5$

(c) -5

(d) 5

7. Simplify, $(2\sqrt{2} \times 3\sqrt{5}) \div 2$.

(a) $3\sqrt{5}$

(b) 15

(c) $12\sqrt{10}$

(d) $3\sqrt{10}$

8. The rational numbers lie between $3/7$ and $2/3$ is?

(a) $2/5$

(b) $4/7$

(c) $3/7$

(d) $2/3$

9. Simplify, $2\sqrt{5} + 10\sqrt{5} + 25\sqrt{5} + 31\sqrt{5}$

(a) $68\sqrt{5}$

(b) $28\sqrt{5}$

(c) $40\sqrt{5}$

(d) $\sqrt{5}$

10. Simplify, $\frac{7+\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}}$

(a) $\sqrt{15}$

(b) $\sqrt{5}$

(c) $\sqrt{7}$

(d) 3

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Question 1: Draw a Line Graph

The table below shows the **altitude** (in kilometers) reached by the space shuttle of *Mission Sindoor* during its first 6 minutes after launch.

Time (in minutes)	Altitude (in kilometers)
0	0
1	5
2	12
3	20
4	28
5	35
6	35

❖ Answer the following questions based on your line graph:

- What was the altitude of the shuttle at 3 minutes?
- During which time interval did the shuttle gain the maximum altitude?
- Did the shuttle continue to rise after 5 minutes? Explain.
- What is the total altitude gained by the shuttle in the first 6 minutes?
- During which minute was the rate of altitude gain the slowest?

ENGLISH

1-Reading Work: Visit your school library, Read any one novel from the following:

- o Train to Pakistan by Khushwant Singh
- o A passage to India by E.M. Foster
- o Harry potter and the chamber of secrets by J.K. Rowling
- After reading, write a short book review (200-250 words) mentioning:
Title, Author, Main characters ,A short summary ,What you liked/disliked, Your favorite scene

(Do it in A4 size sheets)

2. Writing Work:

- Write a story in about 200–250 words beginning with:
 - o "It was a dark and stormy night when I heard a knock at the door..." (do it in your notebook)
- Write a letter to your cousin describing how you spent your holidays. (Do it in your notebook)
- Compose a poem (at least 8 lines) on the theme "The horrors of war" on A4 size sheet.

3. Grammar Work:

- Write positive, negative and interrogative sentences from each of the following verbs:

Ache, afford, battle, bounce, chew, forgive, grab, influence, juggle, sell

(Do it in your notebook)

- Write 10 sentences of each:

a) simple sentences b) complex sentences c) compound sentences (Do it on A4 size sheets)

4. Speaking & Listening Activity :

- Record yourself reading a poem aloud with expression.
- Listen to an English podcast or audiobook for at least 30 minutes weekly.

5. Fun Creative Work:

- Perform an aasana daily, click pictures and make a collage on A3 size sheet to celebrate "Yoga Day".
- Paste the picture of any one of the following authors- Rabinder Nath Tagore, Ruskin Bond, O' Henry and William Shakespeare. Below it provides the following information about the author.
 1. Date of birth
 2. Popular works
 3. Awards received

(Do it on A3 size sheet)

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WORKSHEET

Fill in the blanks with suitable collective nouns:

1. The captain guided the _____ to play better.
2. The French destroyed the Armenian _____.
3. The _____ decided to appoint Riya as the Manager.
4. Please clean the _____ of garbage.
5. The _____ performed the Macbeth drama.
6. The _____ passed a unanimous decision.
7. Can you pass me the _____ of keys.
8. The hunter carried a _____ of arrows.

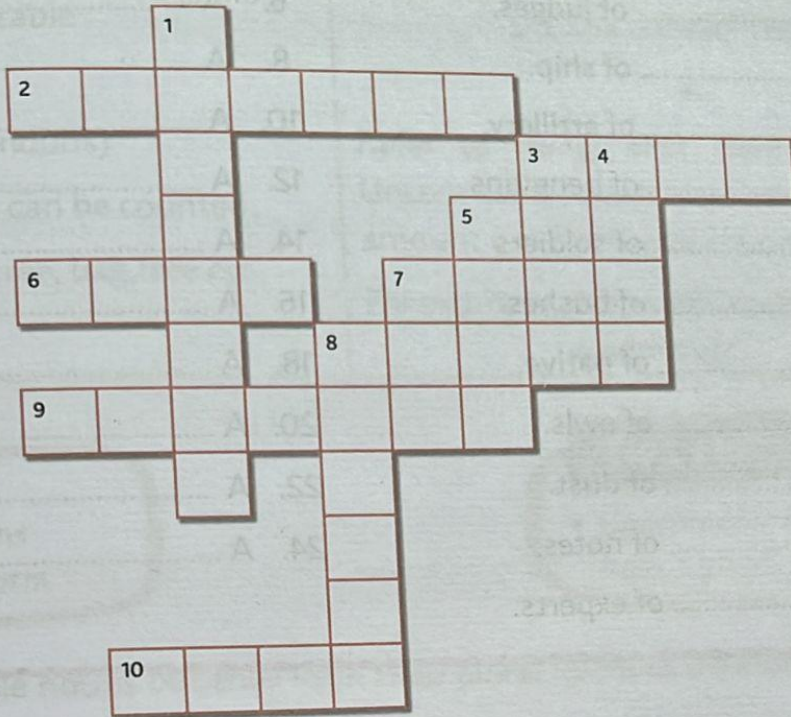
2. Fill in the blanks with appropriate abstract nouns:

1. Practice gives _____.
2. The Principal's speech was _____.
3. I followed the _____ of my teacher.
4. We must reduce the _____ of paper.
5. Nurjahan was famous for her _____.
6. Nihal wants to apply for library _____.
7. _____ to animals is not acceptable.
8. I need a bottle of water to quench my _____.
9. The _____ of riding a roller coaster cannot be described.
10. India got _____ in 1947.

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C. Solve the crossword puzzle by filling in the appropriate collective nouns with the help of given hints.



Across

2. My friend gave me a of flowers on my birthday.
3. My neighbors got robbed by a of thieves.
6. The of American airline pilots is boarding the plane.
7. The cricket is trying its level best to win the final matches.
9. There is an of apple trees in our village.
10. The has announced its verdict after a long span.

Down

1. The were enjoying the dance concert.
4. The was sent at the border to maintain peace.
5. Roaming the grassland, a of cattle searched the fresh grass.
8. Her plans to go to an island during the summer vacation.

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Choose the correct option-

1. The cow jumped over the moon- Which is the subject?
 - a. cow
 - b. moon
 - c. The cow
 - d. the moon
2. I have the file saved in a hard drive- Which is the subject?
 - a. the file
 - b. I
 - c. hard drive
 - d. I have
3. You Add the right predicate.
 - a. has been very naughty
 - b. look as busy as a bee
 - c. was asleep when I came back.
 - d. looks fond of cakes.
4. were the first to invent paper- Add the right subject.
 - a. Did the Chinese
 - b. China
 - c. The Chinese people
 - d. Chinese folklore
5. All the students in my class happen to be smart Which is the predicate in the sentence?
 - a. All the students
 - b. to be smart
 - c. in my class
 - d. happen to be smart
6. Into the valley of death rode the brave six hundred soldiers. Which is the subject?
 - a. Into the valley of death
 - b. valley of death
 - c. rode the brave six hundred soldiers.
 - d. the brave six hundred soldiers.
7. Our solar system consists of eight planets. Which is the subject?
 - a. Our solar system
 - b. solar system
 - c. planets
 - d. eight planets

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Identify whether the sentences are simple, compound or complex.

1. Rani was helpless, still she tried.
2. He will pass only if he works hard.
3. Geeta is an excellent athlete.
4. You must wait till the meeting is over.
5. I lost the book which my teacher had gifted me.

Q1. Circle the direct objects and underline the indirect objects in the given sentences:-

1. The teacher told them a story.
2. Father gave the guard his salary.
3. He taught Mahi Mathematics.
4. Edward made him the leader of the class.
5. The waiter served tea to all.
6. My grandfather told me a story.
7. The Science teacher asked the students questions on the recently completed lesson.
8. Did you mail Ma'am the required documents?
9. The baby gave her mom a kiss.
10. Divya sent Mikki her share of the money for Netflix.

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COMPUTER

Activity:- Create a short presentation (6-8 slides) using PowerPoint about " Internet"

- Adding Sparklines in a sales Report.
 - a. Select the cells where you want the Sparklines to appear Example ,D2: D6
 - b. From the Insert tab, click on the line in the Sparklines group.
 - c. Click on the Data Range box and select the range B2: C6 and specify \$D \$2:\$D\$6 in the location Range box.
 - d. Click on the Ok button
- Write a short paragraph about "Air pollution and then make a pie chart on Air pollution index of your city in Excel.
- :- Solve the worksheets are given below.

INTERNET VOCABULARY QUIZ

➤ Match the words with their meanings:

- | | | |
|---------------------|-------|---|
| 1. WWW | _____ | A. a place where you talk by typing |
| 2. E-mail | _____ | B. a secret word that only you and your parents know |
| 3. Internet address | _____ | C. a letter you send through your computer |
| 4. URL | _____ | D. a hidden program that can hurt your computer |
| 5. Chat Room | _____ | E. advertising that comes to your e-mail address |
| 6. Virus | _____ | F. a name you choose for yourself that isn't your real name |
| 7. Password | _____ | G. an Internet address (Uniform Resource Locator) |
| 8. SPAM | _____ | H. a process of file transfer from the Internet |
| 9. Blog | _____ | I. a place on the Internet you can visit |
| 10. Screen Name | _____ | J. an interconnection of computer information systems available via the Internet (World Wide Web) |
| 11. Internet | _____ | K. another way to say URL |
| 12. Web-site | _____ | L. the world that only exists in the computer and your head |
| 13. Cyberspace | _____ | M. a worldwide system of computers |
| 14. Username | _____ | N. another way to say "username" |
| 15. Download | _____ | O. a journal you keep on the Web: short for Web log |
- 
- 

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NAME: _____

DATE: _____

COMPUTERS

Grammar-in-Context

- Complete the paragraph by circling the correct words.

Do you have an iPad, iPod, iPhone, a smartwatch or a Mac computer? If you (1)_____, you probably know someone who (2)_____ one (or wants one)! Steve Jobs made the company – Apple – that created these things that are now such an important part of the lives of millions (3)_____ people.

He was born (4)_____ February 24, 1955, in San Francisco, California. When he (5)_____ a boy, he had a special hobby: he (6)_____ to take apart televisions and put them back together again. He was a very good student in school and even skipped a grade. After he (7)_____ grade four, he went into grade six, and in 1972, when he was seventeen, he graduated from high school. He then began (8)_____ studies in Reed College, in Portland, Oregon, (9)_____ dropped out after six months. Deciding to quit was not at all easy. It was difficult, but as Jobs later (10)_____, "I had no idea what I wanted to do with my life." Two years later in 1974, he travelled to India, and while there he learned about Buddhism.

After Steve Jobs returned to the United States, he found a job as a video game designer at a company called Atari, and two years after that, in 1976, when (11)_____ was only twenty-one years old, he created his own company – Apple Computer – with his friend, Steve Wozniak. Steve Jobs later got married in 1991 and had four children. Unfortunately, doctors (12)_____ that he had cancer in 2003 and in 2011 he died at the age of only 56.

1.
(A) aren't
(B) not
(C) don't
(D) isn't

2.
(A) has
(B) have
(C) is having
(D) having

3.
(A) for
(B) of
(C) and
(D) to

4.
(A) at
(B) on
(C) to
(D) in

5.
(A) were
(B) is
(C) was
(D) are

6.
(A) liking
(B) likes
(C) like
(D) liked

7.
(A) finished
(B) finish
(C) finishing
(D) finishes

8.
(A) his
(B) he
(C) him
(D) he's

9.
(A) so
(B) but
(C) because
(D) while

10.
(A) says
(B) say
(C) said
(D) saying

11.
(A) his
(B) him
(C) he's
(D) he

12.
(A) discovers
(B) discover
(C) discovery
(D) discovered

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DRAWING

- Do Page no-46 to 52 in Drawing Book (copy)
- Do Page no-55,56,57,58 Drawing Book (copy)
- Do Page no-67,69 Drawing Book (copy)
- Make a collage from page no 70 in Drawing Book (copy)
- Page No-77 Drawing Book (copy)
- Click on this link for Paper Mache <https://pin.it/4ZZ6BMrao>
- Click on this link for Wire Sculpture <https://pin.it/3cGvyVhko>