

### List of Experiments / Activities :-

1. To Prove that light is required for the process of photosynthesis.
2. To demonstrate that carbon dioxide is required for Photosynthesis.
3. To study the process of heat transfer by conduction.
4. To show that rusting of iron requires both oxygen and water.
5. To study the effect of acid on various indicators.
6. To study the effect of base on various indicators.
7. To Make Newton's coloured disc and rotate it.
8. To demonstrate that a convex lens brings the light rays passing through it close to each other (converges) while a concave lens spreads out the light rays passing through it (diverges).
9. To demonstrate the process of cleaning the wastewater through filtration.
10. To make an Electric circuit with a bulb, a dry cell, cellophane tape and insulated copper wires.

## Nav Gian Deep Public School Syllabus Class- 7th Session-2024-25

### English

- April-May** Prose : Chapter-1 Three Questions.  
Chapter-2 A Gift of Chappal.
- Poem : The squirrel.
- ELGA -14 : Pg- 5 to 23.
- Grammar : Ch-1 Noun.  
Ch-2 Pronoun.  
Ch-3 Determiners.
- Activity : Discuss and debate on My Right and My Duties.
- Listening and speaking skill :-  
Listening of comprehension based on stories of My Rights and My Duties.
- July & August** Prose : Chapter-3 Gopal and the Hilsa fish
- Poem : The Rebel  
The shed
- ELGA -14 : Pg- 24 to Pg-57.
- Grammar : Ch-4 Adjectives.  
Ch-5 Verbs.  
Ch-6 Tense.
- Activity : Role play on the chapter 'Gopal and the Hilsa Fish'.
- Writing : Notice writing.

Periodic Test - 1 :-

Chapter-1 : Three Questions.

Poem : The squirrel.

Grammar : Noun, Pronoun, Determiners.

ELGA -14 : Pg- 5 to 23.

Periodic Test - 2 :-

Chapter-2 : The Gift of Chappal.

Poem : The Rebel.

Grammar : Adjectives, Verbs.

ELGA-14 : Pg- 24 to 34.

Half yearly Examination :-

Chapter-1 : Three Questions.

Chapter-2 : A Gift of Chappal.

Chapter-3 : Gopal and the Hilsa Fish.

Poem : The Rebel

Grammar : Tense, Adjectives, Pronoun,  
Determiners.

Writing : Notice Writing.

ELGA : Pg- 34 to 54.

**October  
&  
November**

Chapter-4 : The Ashes that made Trees Bloom

Chapter-5 : Quality.

Poem : Chinvy  
: Trees.

ELGA -14 : Pg- 58 to 83.

Grammar : Adverbs, Prepositions

Activity : Presentation.

Writing : Formal letter writing.

**SA - 1 Examination :-**

Ch-1 Nutrition in Plants (From NCERT Book).

Ch-1 Nutrition in Plants (From Lead Book, Pg no 6 to 12)

Ch-3 Heat (From NCERT Book).

Ch-3 Heat (From Lead Book, Pg- 94 to 100).

Ch-4 Acids, Bases and salts (From NCERT Book)

Acids, Bases and salts (From Lead Book Pg- 74 to  
84).

Ch-5 Physical and Chemical changes. (From NCERT  
Book).

Physical and Chemical changes. (From Lead Book,  
Pg no- 85 to 91).

Ch-11 Light (From NCERT Book).

Light (From Lead Book Pg no- 101 to 110).

**Term - II** PT - 3 : Chapter- 6 Respiration in Organisms.  
(From NCERT Book)

Respiration in Organisms  
(From Lead Book, Pg no- 25 to 32).

PT - 4 : Chapter- 10 Electric current and its  
effects (From NCERT Book).

**SA - 2 Examination :-**

Ch-7 Transportation in Animals and Plants (From  
NCERT  
Book).

Ch-8 Reproduction in Plants (From NCERT Book).

Ch-9 Motion and Time (From NCERT Book).

Ch-12 Forests: Our lifeline (From NCERT Book).

**February** Unit Test - 4 : Ch-8 Rational number  
Ch-9 Perimeter and Area

SA - I : Ch- 5, 6, 8, 9  
SA - II : Ch- 7, 8, 9, 10, 11

### Science

**April & May** Chapter- 1 : Nutrition in Plants.  
Chapter- 3 : Heat.  
Chapter- 4 : Acids, Bases and salts.

**July and August** Chapter- 2 : Nutrition in Animals.  
Chapter- 5 : Physical and Chemical changes.  
Chapter-11 : Light.

**October & November** Chapter- 6 : Respiration in Organisms.  
Chapter- 9 : Motion and Time.  
Chapter-12: Forests our Lifeline.

**December & January** Chapter- 7 : Transportation in Animals and Plants.  
Chapter- 8 : Reproduction in Plants.  
Chapter- 10 : Electric current and its Effects.  
Chapter- 13 : Wastewater story.

**Term - I** PT - 1 : Chapter- 1 Nutrition in Plants (From NCERT Book)  
Chapter- 1 Nutrition in Plants (From Lead Book - Pg- 6 to 12).

PT - 2 : Chapter- 5 Physical and Chemical Changes (From NCERT Book).  
Chapter- 5 Physical and Chemical changes. (From Lead Book - Pg- 85 to 91)

**December & January** Chapter-6 : Expert Detectives.  
Chapter-7 : The Invention vita work.

Poem : Mystery of the talking Fan.  
: Dad and the cat and the Tree.

ELGA -14 : Pg- 84 to 109.

Grammar : Conjunctions, sentences.

Activity : Pictionary.

Writing : E-mail writing.

Periodic Test - 3 :-  
Chapter-4 : The ashes that made trees Bloom  
Poem : The shed  
Grammar : Adverbs, Prepositions.  
ELGA : Pg- 55 to 70.

Periodic Test - 4 :-  
Chapter-5 : Quality.  
Poem : Chinvy.  
Grammar : Conjunction, sentences.  
ELGA : Pg- 71 to 83.

Final Examination (SA - 2) :-  
Chapter-6 : Expert Detectives.  
Chapter-7 : The Invention of vita-work  
Poem : Mystery of the talking Fan.  
: Dad and the cat and the tree.  
Grammar : Verbs, Adjectives, Determiners,  
Preposition, Tenses.  
Writing : Notice Writing, formal letter,  
E-mail writing.

## Maths

- April** Chapter-1 : Integers.  
(Addition, subtraction, Multiplication, Division, of Integers).
- Activity : Integers on a Number line project  
Elga : Unit 1 Number system.
- Chapter-2 : Fractions and Decimals.
- Activity : Puzzle solve the given crossword and fill up the given boxes.
- May** Chapter-3 : Data Handling.
- Activity : Activity 3.1 and 3.2 on page no 65
- July** Chapter-4 : Simple equations.
- Activity : Frame algebraic equations from given situations and solve them.
- August** Chapter-5 : Lines and angles.
- Activity : Give some example of lines, line segments and rays from daily life.  
Elga : Unit - 2 Geometry.
- September** Chapter-6 : The triangle and its properties.
- Activity : Cut and paste activity (Pythagorean triplets, Exterior, Right angled triangles).
- Chapter-7 : Comparing Quantities.
- Activity : On the graph paper sheet, draw a right angled triangle with sides.

- October** Chapter-8 : Rational Numbers
- Activity : Puzzle -Moving from start to finish by going from smaller to bigger rational numbers.  
Elga : Unit - 3 Integers and Rational numbers.
- November** Chapter-9 : Perimeter and Area
- Activity : Draw five circles of different radius and circumference.  
Elga : Unit - 7 Mensuration.
- December** Chapter-10 : Algebraic Expressions
- Activity : Cross numbers puzzle on mathematics.
- January** Chapter-11 : Exponents and Powers.  
Elga : Unit - 6 Data Handling and Exponents.
- Chapter-12 : Symmetry.  
Elga : Unit - 7 Geometry and Mensuration.
- February** Chapter-13 : Visualising solid shapes
- Unit Test - 1 : Ch-1 Integers  
Ch-2 Fractions and Decimals
- Unit Test - 2 : Ch-3 Data handling  
Ch-4 Simple equations.
- Unit Test - 3 : Ch-5 Lines angles  
Ch-6 The triangle and Its properties.  
Ch-7 Comparing quantities.

अक्टूबर	वसंत	– पाठ-11 : रहीम के दोहे (कविता) – पाठ-12 : कंचा (कहानी) – पाठ-13 : एक तिनका (कविता)
	संपूर्ण हिंदी	–
	व्याकरण	– पाठ- 7 : पर्यायवाची भाब्द – पाठ-11 : उपसर्ग और प्रत्यय – पाठ-34 : अनुच्छेद लेखन
नवम्बर	वसंत	– पाठ-14 : खानपान की बदलती तसवीर (निबंध) – पाठ-15 : नीलकंठ (रेखाचित्र) – पाठ-16 : भोर और बाखा (कविता)
	संपूर्ण हिंदी	– पाठ-14 और 15
	व्याकरण	– पाठ-18 : विशेषण – पाठ-19 : क्रिया – पाठ-28 : मुहावरे और लोकोक्तियाँ – पाठ-35 : निबंध लेखन
दिसम्बर	वसंत	– पाठ-17 : वीर कुँवर सिंह (जीवनी) – पाठ-18 : संघर्ष के कारण मैं तुनुमिज़ाज
	संपूर्ण हिंदी	– इकाई 4 (SB 9, 10, 11, 12, 13)
	व्याकरण	– पाठ-23 : समुच्चयबोधक (योजक) – पाठ-24 : विस्मयादि बोधक
	गतिविधि	– धनराज पितलै पाठ के आधार पर हाँकी के बारे में जानकारी हासिल करें व खिलाड़ियों के नाम लिखें।

## Social studies

April- May	History :- Chapter- 1 : Tracing changes a Thousand years. Chapter- 2 : New king and Kingdoms.
	Civics :- Chapter- 1 : On Equality. Chapter- 2 : Role of government in health.
	Geography :- Chapter- 1 : Environment. Chapter- 2 : Inside our Earth.
Activities	i) Draw the picture of your idea environment. ii) Compose the any temple shown in this chapter with any present-day temple in your neighbourhood.
Lead Book :- Understanding (SB 1 to SB 9) Earth.	Emergence of New (SB 1 to SB 11) Kingdoms, Dynasties and Empires.
July & August	Equality (SB 1 to SB 8) :- “self study for students under the guidance of a teacher”.  History :- Chapter- 3 : The Delhi sultans. Chapter- 4 : The Mughal Empire.  Civics :- Chapter- 3 : How the state Government works Chapter- 4 : Growing up as Boys and Gires.

**July &  
August**

Geography :-  
Chapter- 3 : Our changing Earth.  
Chapter- 4 : Air.

Activities : i) Find out if Mughal Empire had any impart in the which you line  
ii) Map- Selected sultaate cities of Delhi.

Lead Book - Understanding earth (SB 10 to SB 21), Emergence of New kingdoms, dynasties and Empires (SB 12 to SB 26), Equality (SB 9 to SB 17).

Activity : iii) Make a weather calender for one week. Use picture or symbols to show different types of weather.

PT - 1 :- History : Ch- 1  
Civics : Ch- 1  
Geography : Ch- 1

PT - 2 :- History : Ch- 2  
Civics : Ch- 2  
Geography : Ch- 2

SA - 1 :- History : Ch- 3, Ch- 4  
Civics : Ch- 3, Ch- 4  
Geography : Ch- 3, 4

**October &  
November**

History :-  
Chapter- 5 : Tribes, Nomadsand settled Communities.

Civics :-  
Chapter- 5 : Woman changes the wold.  
Chapter- 6 : Understanding Media.

**मई**

वसंत – पाठ-3 : हिमालय की बेटियाँ (निबंध)  
– पाठ-4 : कठपुतली (कविता)

संपूर्ण हिंदी – इकाई 3 (SB 1, 2, 3 )

व्याकरण – पाठ-13 : संज्ञा  
– पाठ-15 : वचन  
– पाठ-17 : सर्वनाम

गतिविधियाँ – नदियों से होने वाले लाभों के विशय में चर्चा कीजिए और इस विशय पर बीस पंक्तियों का एक

**जुलाई**

वसंत – पाठ-5 : मिठाईवाला (कहानी)  
– पाठ-6 : रक्त और हमारा भारीर (निबंध)  
– पाठ-7 : पापा खो गए (नाटक)

संपूर्ण हिंदी – इकाई 1 (SB 8)  
– इकाई 2 (SB 2, 3, 4)

व्याकरण – पाठ- 5 : विलोम भाब्द  
– पाठ- 6 : अनेक भाब्दों के लिए एक भाब्द  
– पाठ-12 : समास  
– पाठ-14 : लिंग  
– पाठ-33 : पत्र लेखन

**अगस्त**

वसंत – पाठ- 8 : भाम एक किसान (कविता)  
– पाठ- 9 : चिड़िया की बच्ची (कहानी)  
– पाठ-10 : अपूर्ण अनुभव (संस्मरण)

संपूर्ण हिंदी – इकाई 1 (SB 13, 14)  
– इकाई 2 (SB 10, 11, 12)

व्याकरण – पाठ-4 : भाब्द विचार  
– पाठ-5 : विलोम भाब्द

गतिविधि – अपने –अपने घर का पता लिखिए तथा चित्र बनाकर वहाँ पहुँचने का रास्ता भी बताइए।

**December** Chapter- 9 : Introduction to Ms-Access.  
Chapter-10: Computer Network.

Activity : i) Create the database by using MS-Access.  
ii) Group discussion on type of computer network.

**January** Unit - 3 : Treasure Trove (coding & computational skills)

Activity : Write a simple program in Python.

**February** Revision and Exams.

SA - I : Chapter- 1, 2, 3, 4 and 5.  
Unit - 1.

SA - II : Chapter- 6, 7, 8, 9 and 10.  
Unit - 2 and 3.

हिन्दी  
(वसंत भाग— 2)

अप्रैल

वसंत – पाठ-1 : हम पंछी उन्मुक्त गगन के ( कविता )  
– पाठ-2 : दादी माँ ( कहानी )

संपूर्ण हिंदी – इकाई 2, पाठ 5, इकाई 3, पाठ 1

व्याकरण – पाठ-1 : भाशा, लिपि और व्याकरण  
– पाठ-2 : वर्ण – विचार  
– पाठ-3 : संधि

गतिविधियाँ – मानव की वर्तमान जीवन भौली और भाहरीकरण से जुड़ी योजनाएँ पक्षियों के लिए घाटक है? पक्षियों से रहित वातावरण में अनेक समास्याएँ उत्पन्न हो सकती है। विशय पर बाद-विवाद प्रतियोगिता का आयोजन करे।

Geography :-  
Chapter- 5 : Water.

Activity : i) Find out and learn the names of few trees of your locality.  
ii) Make a weather calendar for one week.

Lead Book : Understanding earth (SB 22 to SB 24). Life in Medieval India (SB 18 to SB 25).

Activity : iii) Make a poster on spring Tides and Neap Tide.

**December** History :-  
Chapter- 6 : devotional paths to the divine.  
Chapter- 7 : Making of regional culture.

Civics :-  
Chapter- 7 : Market around us

Geography :-  
Chapter- 6 : Human Environment Interaction.

Activities : i) Take a newspaper and count the numbers of advertisements in it.  
ii) Discussion in the classroom : some TV channels broadcast documentaries on the wildlife of the world. Try to water some of the films and shase your experience with the class.

PT - 3 :- History : Ch- 5  
Civics : Ch- 5  
Geography : Ch- 5

PT - 4 :- History : Ch- 6  
Civics : Ch- 6  
Geography : Ch- 6

## January

History :-  
Chapter- 8 : Eighteenth century Political formation.

Civics :-  
Chapter- 8 : A shist in the Masket.

Geography :-  
Chapter- 7 : Life in the desist.

Activity : Map- I) Sahasa in afica (west).  
ii) Ladakh cold desert (locate in map).  
iii) Do you find similar 'putting out' arrangements in making papads masalas, beedis ? Find out about this in your area and discuss in class.  
iv) Make a poster on sword of maharaja Ranj't Singh.

SA - 2 : History : Ch- 7, 8.  
Civics : Ch- 7, 8  
Geography : Ch- 7, Map

## Computer

## April

Chapter-1 : Computer Software.

Activity : Visit to the Computer lab open MS-Word make a List of application software.

## May

Chapter- 2 : Buying a Computer.

Activity : Group discussion about the factors considered when buying a new Computer.

## July

Chapter- 3 : More on Microsoft word.

Unit - 1 : Explore the world with Apps-I. (Coding & Computational skills).

Activity : i) Make a list of shortcut keys used in Microsoft word.  
ii) Create an App using variable, conditionals and operators.

## August

Chapter- 4 : Advanced Features in Excel.  
Chapter- 5 : Chart in Excel.

Activity : Create a different types of chart in Ms-Excel.

## October

Chapter- 6 : Qbasic Program.

Activity : Make a list of different commands used in Qbasic.

Unit - 2 : Around the world ( coding & computational skills).

Activity : Create an app using procedures.

## November

Chapter- 7 : Starting with HTML.  
Chapter- 8 : Working in HTML.

Activity : Create a website using HTML tag.



जनवरी	वसंत	– पाठ-19 : आश्रम का अनुमानितव्यय – पाठ-20 : विप्लव-गायन (कविता)
	संपूर्ण हिंदी	– इकाई 3 (SB 10, 11)
	व्याकरण	– पाठ-20 : काल – पाठ-29 : मौखिक अभिव्यक्ति – पाठ-30 : अपठित गद्यांश – पाठ-31 : डायरी लेखन
	गतिविधि	– यातायात के नए व पुराने साधनों की जानकारी हासिल करके इन साधनों के चित्र कॉपी में लगाए।
चक्रीय परीक्षण ( प्रथम )	वसंत	– पाठ- 1 और 2
	व्याकरण	– पाठ- 1 और 2
चक्रीय परीक्षण ( द्वितीया )	वसंत	– पाठ- 3 और 4
	व्याकरण	– पाठ-13, 15, 17
चक्रीय परीक्षण ( तृतीया )	वसंत	– पाठ- 11 और 12
	व्याकरण	– पाठ- 7 और 11
चक्रीय परीक्षण ( चतुर्थ )	वसंत	– पाठ- 13 और 14
	व्याकरण	– पाठ- 18, 19 और 34
संकलित परीक्षण ( प्रथम )	वसंत	– पाठ- 5, 6, 7, 8, 9, 10
	व्याकरण	– पाठ- 3, 5, 6, 12, 14, 33
संकलित परीक्षण ( द्वितीया )	वसंत	– पाठ- 15, 16, 17, 18, 19, 20
	व्याकरण	– पाठ- 18, 19, 28, 30, 34, 35, 23, 24,

जनवरी	वसंत	– पाठ-19 : आश्रम का अनुमानितव्यय – पाठ-20 : विप्लव-गायन (कविता)
	संपूर्ण हिंदी	– इकाई 3 (SB 10, 11)
	व्याकरण	– पाठ-20 : काल – पाठ-29 : मौखिक अभिव्यक्ति – पाठ-30 : अपठित गद्यांश – पाठ-31 : डायरी लेखन
	गतिविधि	– यातायात के नए व पुराने साधनों की जानकारी हासिल करके इन साधनों के चित्र कॉपी में लगाए।
चक्रीय परीक्षण ( प्रथम )	वसंत	– पाठ- 1 और 2
	व्याकरण	– पाठ- 1 और 2
चक्रीय परीक्षण ( द्वितीया )	वसंत	– पाठ- 3 और 4
	व्याकरण	– पाठ-13, 15, 17
चक्रीय परीक्षण ( तृतीया )	वसंत	– पाठ- 11 और 12
	व्याकरण	– पाठ- 7 और 11
चक्रीय परीक्षण ( चतुर्थ )	वसंत	– पाठ- 13 और 14
	व्याकरण	– पाठ- 18, 19 और 34
संकलित परीक्षण ( प्रथम )	वसंत	– पाठ- 5, 6, 7, 8, 9, 10
	व्याकरण	– पाठ- 3, 5, 6, 12, 14, 33
संकलित परीक्षण ( द्वितीया )	वसंत	– पाठ- 15, 16, 17, 18, 19, 20
	व्याकरण	– पाठ- 18, 19, 28, 30, 34, 35, 23, 24,