

# ENGLISH

TOPIC	LEARNING OBJECTIVE	ACTIVITY
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## APRIL

### MCB –

#### AN INDIAN KALEIDOSCOPE

1. On Being an Indian
2. The idea of India the lesson
3. In the Bazaars of Hyderabad

#### LITERATURE READER-

1. The guest house
2. A Christmas carol

#### WORKBOOK-

1. Sentences
2. Clauses

- To be able to read, infer and understand
- To be able to read, infer and understand
- To recreate the sounds and images suggested by the words
- To read poem for pleasure
- To develop dramatization skills

Speaking in Group/class/with partner, Compound words, punctuation, writing a story, listening and reconstructing a poem

New words  
Dramatization

**WEBLINKS :** <https://www.youtube.com/watch?v=LKO-F4qO2hg>

## MAY

### MCB –

#### ART AND CULTURE

4. Art Rocks!
5. The Last Stonemason
6. Ozymandias

#### LITERATURE READER-

1. Dusk
2. Milk for the cat

#### WORKBOOK-

3. Relative clauses
4. Adverb clauses

- To practice reading and comprehension skills
- To practice reading and comprehension skills
- To develop reading and listening skills
- To read for pleasure
- To appreciate a descriptive poem

Speaking in Group/class/with partner, listening and filling blanks, writing an informal letter, suffixes, homonyms

New words, idioms

**WEB LINK :** [https://www.youtube.com/watch?v=5\\_KsPsDR1ug](https://www.youtube.com/watch?v=5_KsPsDR1ug)

## JULY

### MCB –

#### THE ADVENTURE EXPRESS

They came  
The adventure of the blue Carbuncle  
Imagination

#### LITERATURE READER-

The New Schoolfellow  
Mowgli, the Wolf-Child

#### WORKBOOK-

Modals  
Future tense

- To practise reading and comprehension skills
- To practise reading and comprehension skills
- To develop listening and reading skills
- To appreciate long reading text
- To instil courage and grow sensitivity towards specially abled people

Speaking in Group/class/with partner  
Listening for correct details, writing a newspaper report, dictionary work, prefixes

Words related to disability

**WEB LINK :** <https://www.youtube.com/watch?v=LucNdnfbNIA>  
<https://www.youtube.com/watch?v=zaDyU2l6fFg>

# AUGUST

## MCB –

### INVENTIONS AND DISCOVERIES

10. An Amazing ancestor
11. Madam Curie
12. The Microscope

### LITERATURE READER-

7. The Louse and the Mosquito
8. The Strange Man's Arrival

### WORKBOOK-

7. Participles
8. Infinitives, Gerunds

- To be able to read, understand and infer
- To be able to read, understand and infer
- To recreate the sounds and images suggested by the words
- To appreciate a humorous poem
- To appreciate the quality of non-violence

Speaking in Group/class/with partner, listening to develop creativity, writing a paragraph, idioms and phrases

New words, dialogue writing

**WEBLINKS :** <http://learningenglish.voanews.com/a/getting-to-know-gerunds-and-infinitives/3111996.html>

<https://www.youtube.com/watch?v=4Eou7kJSoLM>

# SEPTEMBER

## REVISION

# OCTOBER

## THE MAGIC OF WORDS

13. The Palindrome
14. Adiva!
15. Flutters of thought

### LITERATURE READER-

9. The Casket Test
10. The Morning After

### WORKBOOK-

9. Voice

- To practise reading and comprehension skills
- To practise reading and comprehension skills
- To enable students to appreciate characters in a drama. To help students understand archaic words
- To enrich students' vocabulary on descriptive words

Speaking in Group/class/with partner, listening and comprehension, writing a narrative, idioms

Descriptive Phrases, new words, dramatization

**WEBLINKS :** <https://www.youtube.com/watch?v=eByzm-hEBYM>

# NOVEMBER

## MCB –

### **HEAL THE EARTH**

- 16.An interview with Arun Krishnamurthy
- 17.The Tyger

## LITERATURE READER-

- 11.The Pool
- 12.The Trojan War

## WORKBOOK-

- 10. Connectors

- To practise reading and comprehension skills
- To be able to read, understand and infer
- To recreate the sounds and images suggested by the words
- To develop a habit of self-reading
- To acquaint students about historical facts

Speaking in Group/class/with partner, listening and marking directions, writing a formal letter, phrases, compound words

New words, crossword

**WEBLINKS :** <https://www.youtube.com/watch?v=KH9OxlGAaHE>  
<https://www.youtube.com/watch?v=k4PeUWd3TG8>

# DECEMBER

## MCB –

### **IN THE NAME OF PEACE**

- 18. Ashoka, the messenger of peace
- 19. Towards peace
- 20. Maithreem Bhajatha- A blessing for world peace

## WORKBOOK-

- 11. Prepositions
- 12. Prepositional phrases
- 13.Conjunctions

- To be able to read, understand and infer
- To be able to read, understand and infer
- To recreate the sounds and images suggested by the words

Speaking in Group/class/with partner, listening and reconstructing a report, writing a speech, phrases, phrasal verbs

**WEBLINK :** <https://www.youtube.com/watch?v=YY2yjEEoB3U>

# JANUARY/ FEBRUARY

## REVISION

## HINDI

पाठ्यक्रम एवं पाठ्यसूची	शिक्षण उद्देश्य	गतिविधियाँ
<b>टप्रेल</b>		
<p>पाठ्यसूची— पाठ—1 मानव का कल्याण पाठ—2 दो डॉक्टर पाठ—3 चेतना के स्वर</p>	<p>मानव का कल्याण की भावना सिखाना,कर्म के महत्व से अवगत करना,सामाजिक मख्ल्यो को समझाना।</p>	<p>समाजिक रूढीवाद पर गोष्ठी कर्मही पूजा विषय पर अनुच्छेद लेखन</p>
<p>व्याकरण— भाषा,बोली और लिपि, वर्ण—विचार और उच्चारण,उपसर्ग प्रत्यय विलोम एवं पर्यायवाची ,पत्र लेखन,अनुच्छेद लेखन</p>	<p>पत्र लेखन विधा से अवगत करना शब्द भंडार में वृद्धी कराना,वैचारिक लेख विधा से परिचय करना ,भाषा ,बोली और लिपी के अंतर को समझाना।</p>	
<b>मई</b>		
<p>पाठ्यसूची— पाठ—4 अकबरी लोटा</p>	<p>सूझबूझ के गुण किवसीत करना।</p>	<p>अकबर बीरबल की कोई कहानी सुनाएँ</p>
<p>व्याकरण— संज्ञा ,अनेकार्थक शब्द ,श्रुतिसमभिन्नार्थक शब्द,निबंध लेखन</p>	<p>शब्द भंडार में वृद्धी कराना,वैचारिक लेख विधा से परिचय करना ,संज्ञा के प्रयोग की समझ बढ़ाना।</p>	
<b>जुलाई</b>		
<p>पाठ्यसूची— पाठ—5 मनभावन सावन पाठ—6 पृथ्वी पाठ—7 जादुई कालीन</p>	<p>प्रकृतिक सौन्दर्यबोध कराना,पृथ्वी के संरक्षण के प्रति जागरूक करना। नैतिक मूल्यो से अवगत करना</p>	<p>सौरमंडल का चित्र बनाएँ बालश्रम पर परिचर्चा</p>
<p>व्याकरण— संधि,कारक,सर्वनाम,काल,अनेक शब्दों के लिए एक शब्द, पत्र लेखन,अनुच्छेद लेखन,अपठित गद्यांश</p>	<p>अभिव्यक्ति क्षमता का विकासकरना।उपसर्ग,प्रयोग में सक्षम बनाना, पत्र लेखन विधा से अवगत</p>	
<b>टगस्त</b>		
<p>पाठ्यसूची— पाठ—8 कलिंग विजय पाठ—9 जीवन नहीं मरा करता ठे</p>	<p>नाट्य विधा से परिचीत करना,आशादीदसोच देना।</p>	<p>सम्राट अशोक के कार्यों पर परिचर्चा जीवन विषय पर कविता वाचन</p>
<p>व्याकरण— क्रिया,समास,वाच्य, वाक्य विचार मुहावरे और लोकोक्तियाँ,अपठित काव्यांश, पत्र लेखन,निबंध लेखन,विज्ञापन लेखन।</p>	<p>अभिव्यक्ति क्षमता का विकास करना, मुहावरे के प्रयोग मेंसक्षम बनाना, पत्र लेखन विधा से अवगत करना ।</p>	

सितम्बर

पुनरावृत्ति

अक्टूबर

पाठ्यसूची— पाठ—10 सुभागी पाठ—11 आखिर कितनी जमीन पाठ— 12 मुक्केबाजी का सुलतान :मुहम्मद अली	नरी सम्मान की सोच देना,जीवन मूल्य सिखाना, मुहम्मद अली के जीवन से प्रेरणा ग्रहण करना ।	बाक्सिंग के खेल में प्रयुक्त होने वाली सामग्रीयों की सूची बनाएँ
व्याकरण— पद—परिचय,पदबंध,वाक्य,अपठित गद्यांश,पत्र लेखन ,कहानी लेखन ।	अभिव्यक्ति क्षमता का विकास करना, पत्र लेखन विधा से अवगत करना,व्याकरणिक परिचय में समर्थ बनाना ।	

नवम्बर

पाठ्यसूची— पाठ—13 चीनी फेरीवाला पाठ—14 जलियोवाला बाग में बसंत पाठ—15 अजन्ता	संस्मरण विधा से अवगत कराना,जलियोवाला बाग कांड की घटना से परिचीत कराना,एतिहासिक धरोहर से अवगत करना ।	महादेवी वर्मा का जीवन परिचय लिखे । टजंता की गुफा के विषय में जानकारी एकत्रित करे ।
व्याकरण— संबंधबोधक,समुच्चयबोधक,विस्मयादिबोधक, विराम चिन्ह,संवाद—लेखन,पत्र लेखन,अपठित पद्यांश , विज्ञापन लेखन ।	अभिव्यक्ति क्षमता का विकास करना, पत्र लेखन विधा से अवगत कराना,अव्यय के प्रयोग से अवगत करना ।	

दिसम्बर

पाठ्यसूची— पाठ—16 पद्य पाठ—17 वीर अभिमन्यु पाठ—18 सत्कर्तव्य	भक्ति रस का असास्वादन कराना,नाट्य विधा से परिचीत करना,देशप्रेम की भावना भरना ।	श्लोक के अर्थ लिखें । सत्कर्तव्य पर कविता लिखे ।
व्याकरण— क्रियाविशेषण,अलंकार,अपठित काव्यांश, पत्र लेखन,निबंध लेखन,कहानी लेखन ।	वाक्य विन्यास में सक्षम बनाना, अभिव्यक्ति क्षमता का विकास करना, पत्र लेखन विधा से अवगत करना ।	

जनवरी ,फरवरी

पुनरावृत्ति

## SANSKRIT

पाठ्यक्रम एवं पाठ्यसूची	शिक्षण उद्देश्य	गतिविधियाँ
<b>अप्रैल</b>		
पाठ्यसूची पाठ 1—प्रयत्नशीलानां देवो अपि सहायकः पाठ 2—अंतर्राष्ट्रीय योग दिवसः	कथाविधिनां संस्कृत भाषायां ज्ञानम्। निबंधलेखन—विधिना योगासनानां ज्ञानम्।	पाठाधारित चित्र वर्णन
व्याकरण संस्कृत संख्या:—1 से 40 उपसर्गः, धातु रूप— लट् लकार, शब्दरूप	शब्द निर्माणस्य ज्ञानम्, संस्कृत संख्यानाम् ज्ञानम्	
<b>मई</b>		
पाठ्यसूची पाठ 3—अस्माकम् पर्यावरणं पाठ 4— मातुल चन्द्रः	पर्यावरणस्य घटकानां ज्ञानं संरक्षणम्उपयोगिता च। पद्यलेखन—विधायाःज्ञानं ,भाषायां महत्त्वं लेखनं च।	संस्कृत श्लोक वाचन ,
व्याकरण—प्रत्यय –क्त्वा, तुमुन ,पर्यायवाची शब्दाः, विलोम शब्दाः प्रार्थनापत्रम्,	प्रत्ययानां ज्ञानम्,शब्द ज्ञानम्	
<b>जुलाई</b>		
पाठ 5—विश्वस्य क्रीडाक्षेत्रे भारतस्य द्वे तारिके पाठ 6—देहि लक्षं मे पाठ 7—नीतिशतकम्	व्यक्ति परिचय—लेखनम् श्रेष्ठ खेलिकयोः परिचयः नीतिसंबंधी श्लोकानां ज्ञानं, संधि नियमानां ज्ञानं प्रयोगश्च।	चित्र वर्णन, पाठाधारित प्रत्यय शब्दानां वाक्येषु प्रयोगं
व्याकरण—धातु रूप,शब्द रूप— इकारान्त ,उकारान्त , प्रत्यय—अनीयर, क्त।	शब्द निर्माणकौशले वृद्धि	अव्ययान् ,प्रत्ययान् च सूचीबद्धं कुरुत
<b>अगस्त</b>		
पाठ 8—संगणककाव्यम् पाठ 9—विदेशेषु संस्कृत शिक्षणम् :	कविता लेखने गायने च छात्राणाम् अभिरुचि वर्धनम् पत्रविधिना भाषायाः ज्ञानम् अवबोधनम् च।	संगणकस्य महत्त्वं विषये अनुच्छेदं लिखत।
व्याकरण—अव्यय,शब्दरूप ,पत्र, अनुच्छेद, वार्तालापः,	संस्कृत भाषायां अवबोधनम्	
<b>सितम्बर</b>		
<b>पुनरावृत्ति</b>		
<b>अक्टूबर</b>		
पाठ 10—मातृ—पितृभक्तः श्रवणकुमारः पाठ 11—कोडईकनालः व्याकरण— समासाः, प्रत्यय,वार्तालाप,चित्र वर्णन, अनुच्छेद	कथायाः माध्यमेन संधि संयोगयोः अंतरस्य स्पष्टीकरण दर्शनीय स्थलानां वर्णने वक्य रचना। संधि संयोगयोः अंतरस्य स्पष्टीकरण	आकारान्त, ऋकारान्त, शब्दरूपान् लोट लकारे ,विधिलिङ्ग लकारे च लिखत। एकस्मिन् पर्वतीय स्थलस्य वर्णनम् कुरुत।

नवम्बर

पाठ 12—साहित्यसुधा पाठ 13— अस्माकम् पर्वणि	संस्कृत वाङ्मये संस्कृत श्लोकानां उपयोगिता। भारतस्य प्रमुख पर्वणं परिचयः	अनुच्छेद लेखनम् –विश्वशांति भारतस्य प्रमुख पर्वणां सारणी निर्मितं कुरु।
व्याकरण—लड० लकार, लृट् लकार धातु रूपाः च,अपठित गद्यांश,अपठित पद्यांश।	क्रियानां लकारस्य ज्ञानम्	

दिसम्बर

पाठ 14—लोभस्य दुष्फलम् पाठ 15—परीक्षा	जीवनमूल्यानां ज्ञानम् ,तेषां जीवने उपयोगिता च काव्यविधायाः संस्कृतज्ञाने अनुप्रयोगः	लोभस्य दुष्परिणामान् पंच वाक्येषु लिखत। परीक्षा विषये स्वानुभवान् दश वाक्येषु लिखत
व्याकरण—अन्वय, पद परिचय। अपठित पद्यांश।	पदानां वास्तविक स्थितेः ज्ञानम्	श्लोकानां अन्वय,

जनवरी

पाठ 16— प्रकाशस्य परावर्तनम् अपवर्तनम् च।	विज्ञानविषयानां संस्कृतभाषा माण्यमेन शिक्षणम् च।	नीतिश्लोक वाचनम्
लोट् लकार, विधिलिङ्ग,धातु रूपाः च ,अशुद्धि शोधन।	संस्कृत व्याकरणस्य अवबोधनम्	वाक्येषु अशुद्धि शोधनं कुरुत

फरवरी

पुनरावृत्ति

# FRENCH

UNIT NO.& CHAPTER	GRAMMAR	LEARNING OBJECTIVE
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## APRIL

<b>Lesson 0</b> <b>La France qu'est-ce que c'est</b> <b>L-1 La rentrée</b>	Word meaning  Word meaning Salutation Word meaning Articles II Les verbes les articles	Knowing about French culture and Civilisation Talking about quantity Answering in negative
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Reference Book/Web link: <http://www.slideshare.net/jessaloretta1/france-ppt-3550716>

## MAY

<b>Lesson 2 Il est français ?</b>	Adjectives Position of adjectives Position of infinitive verbs with another verb	Describe a person Talk about the family Formation of sentences
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Reference Book/Web link: [http://.digitaldialects.com/French\\_verbs.htm](http://.digitaldialects.com/French_verbs.htm)

## JULY

<b>Lesson 5 Faire les courses</b>	Interrogative adverbs Verbs < savoir > and < connaître >	Knowing about shopping places places
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Reference Book/Web link: [www.byki.com/lists/french/common-adjectives.html](http://www.byki.com/lists/french/common-adjectives.html)

## AUGUST

<b>Lesson 6 Mme. Lavigne cherche un Manteau</b>	Vocabulary related French food and meals, markets and shops	Talking about purchase Making purchases Localizing objects
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Reference Book/Web link: [http://www.digitaldialects.com/French\\_verbs.htm](http://www.digitaldialects.com/French_verbs.htm)

## SEPTEMBER

### REVISION

Reference Book/Web link : [http://www.digitaldialects.com/French\\_verbs\\_Conj\\_2\\_.htm](http://www.digitaldialects.com/French_verbs_Conj_2_.htm)

## OCTOBER

<b>Lesson 7 Allons à Paris</b>	Nationalities Countries and their nationalities Irregular verbs	festivals How to Localize a place
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Reference Book/Web link : [http://www.digitaldialects.com/French\\_verbs\\_Conj\\_2\\_.htm](http://www.digitaldialects.com/French_verbs_Conj_2_.htm)

## NOVEMBER

<b>Lesson 9 Au Café des Laurent</b>	Imperative Affirmative Negative Vocabulary (Cutlery)	How to order at a restaurant
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Reference Book/Web link : [http://www.digitaldialects.com/French\\_verbs.htm](http://www.digitaldialects.com/French_verbs.htm)

# DECEMBER

**Lesson 10****Encore une letter de Rouen**Interrogative adjectives  
Expressions with  
<faire> Sports and hobbiesWriting a letter  
How to interrogate  
Talk about interestsReference Book/Web link : <http://www.digitaldialects.com/French/Food.htm>

# JANUARY

**Lesson 11****Une jornee bein charge**Paste tense  
Verbs conjugated with  
<avoir>  
Past tenseTalking about past events  
Formation of sentences using  
irregular verbs.**Lesson 12****Une Visite au parc d'attractions**Verbs conjugated with  
<etre>  
Talking about Past  
eventsReference Book/Web link : [http://www.digitaldialects.com/French\\_verbs\\_Conj\\_1.htm](http://www.digitaldialects.com/French_verbs_Conj_1.htm)

# FEBRUARY

# REVISION



# AUGUST

## Ch-11 Quadrilateral & its basics

Understanding polygons, understanding interior and exterior of a polygon, understand angle sum property of a polygon. Differentiate between concave and convex polygons. Understand the properties of special polygons- llgm, Rhombus, Rectangle, Square, trapezium .

To verify that sum of four angles of a quadrilateral is  $360^{\circ}$ .

To distinguish between concave & convex polygons.

To verify the properties of parallelogram.

## Ch-9 Comparing Quantities.

Find cost price or selling price, profit and loss with percentage. Find sp or cp of an article when discount or rebate is offered. Determine net selling price after imposing sell tax, differentiate between simple and compound interest.

To demonstrate that area of a trapezium is equal to half of the product of the sum of its two parallel sides and the perpendicular distance between them.

**REFERENCE BOOKS :** R.S Agarwal, R. D. Sharma, Manjit Kaur

**WEB LINK :** [www.excellup.com/ClassEight/matheight/quadrilateral/three.aspx](http://www.excellup.com/ClassEight/matheight/quadrilateral/three.aspx)

# SEPTEMBER

## REVISION

# OCTOBER

## Ch-6 Algebraic expression and identities.

Define like and unlike term, monomial, binomial, trinomial, polynomial, addition and subtraction of polynomials. Divide monomial by monomial and others

To verify the algebraic identity :-  $(a+b)^2 = a^2 + 2ab + b^2$

## Ch-10 Direct and inverse variation

Differentiate between direct and indirect variation.

To verify algebraic identity  $a^2 - b^2 = (a+b)(a-b)$  experimentally

**REFERENCE BOOKS :** R.S Agarwal, R. D. Sharma, Manjit Kaur

**WEB LINK :** [mycbseguide.com/download/1293](http://mycbseguide.com/download/1293)

# NOVEMBER

## Ch-14 Mensuration

Find the area and perimeter of the Quadrilateral, Circle, triangles and polygons. Differentiate between volume and capacity,

To derive the formula for the total surface area of a cuboid.

## Ch13 Representing Solids on a Plane

Using the nets to make the 3D shapes. Verify the Euler's formula.

Draw front view, top view and side view of the shapes made by unit cubes.

**REFERENCE BOOKS :** R.S Agarwal, R. D. Sharma, Manjit Kaur

**WEB LINK :** [www.excellup.com/ClassEight/matheight/mensuration/exone.aspx](http://www.excellup.com/ClassEight/matheight/mensuration/exone.aspx)  
[tutrr.com/math/cbse-class-8/arithmetic/direct-and-inverse-variation](http://tutrr.com/math/cbse-class-8/arithmetic/direct-and-inverse-variation)

# DECEMBER

<b>Ch-7 Factorisation</b>	Factorise a binomial, a trinomial by taking out a common factor, regrouping the terms using Identities. Factorise the Quadratic polynomial of the form $(ax^2 + bx + c)$ ,	To discover the relationship between vertices, faces and edges of different 3-D solids.
<b>Ch-5 Playing with numbers</b>	Having fun and at the same time gain confidence and speed in solving problems. Develop and apply divisibility test.	
<b>Ch-12 Practical Geometry.</b>	Construct a Quadrilateral when measurements of at least 5 parts are given.	To make Kite and rhombus by paper folding & cutting.

**REFERENCE BOOKS : R.S Agarwal, R. D. Sharma, Manjit Kaur**

**WEB LINK : [www.excellup.com/ClassEight/matheight/factorextwo.aspx](http://www.excellup.com/ClassEight/matheight/factorextwo.aspx)**

# JANUARY

<b>Ch-16 Data handling</b>	Construct bar graph for ungrouped data, learner will be able to find the probability of an event.	To draw a pie graph for monthly test marks obtained by the students of class VIII
<b>Ch- 15 Introduction to bar graph</b>	Understand introduction to co-ordinates, draw and read linear graph, understand linear patterns reading of distance vs. time.	
<b>Ch-17 Basics of Problem Solving</b>	How to solve the problem critically in real life	

**REFERENCE BOOKS : R.S Agarwal, R. D. Sharma, Manjit Kaur**

**WEB LINK : [www.excellup.com/ClassEight/matheight/factorextwo.aspx](http://www.excellup.com/ClassEight/matheight/factorextwo.aspx)**

# FEBRUARY

## SCIENCE

TOPIC	LEARNING OBJECTIVE	LAB ACTIVITY
<b>APRIL</b>		
<b>Ch-1 Crop production</b> Kharif and Rabi crops Methods of crop production Manures, fertilizers, irrigation weeding	Define crop Differentiate between Kharif and rabi crops. List the months of crop production Define hybridization	Visit an agriculture field to observe different agricultural practices. Collection of some seeds .different irrigation and sources of water in different parts of India
<b>CH-4 Metal and non metals</b> Occurrence of metals and non- metals, Physical properties & Chemical properties of metals and non-metals.	Differentiate between physical and chemical properties of metals and non-metals. List the condition under which rusting takes place and how can it be prevented.	Physical properties of metals and non-metals, displacement reaction, experiments involving reactions with acids and bases.
<b>Ch-16 Light</b> Regular and diffused reflection, laws of reflection, characteristics of image formed by a mirror, multiple reflection	State two laws of reflection List the characteristics of image formed by a mirror, Calculate the number of image formed by a mirror kept at certain angle. Uses of kaleidoscope	Exploring the laws of reflection using ray source and another mirror. Locating the reflected image using glass sheet and all pins , observing multiple images formed by mirrors placed at angles to each other

**WEBLINK :** <http://en.wikipedia.org/wiki/agriculture>,  
[www.cleaningtalk.com](http://www.cleaningtalk.com)

<http://propertiesofmetals.com/physical-properties-of-metals/>  
<http://www.creativekidsathome.com/science/light.html>

**REFERENCE BOOKS-** universal science, ABC of science

## MAY

<b>CH17 Refraction and dispersion of light</b> Reflection and dispersion of light , lenses, structure of an eye, visually	Define refraction Define dispersion and its reason Differentiate between concave and convex lenses. Depict the position and nature of image of objects at different positions.	To demonstrate refraction using prism and glass slab Description of case histories of visually challenged people who have been doing well in their studies and carriers.
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**WEBLINK:** <http://hyperphysics.phy-astr.gsu.edu/hbase/geoopt/refr.html>

**REFERENCE BOOKS-** universal science, ABC of science

# JULY

## **CH-2 Micro organisms**

Types of microorganism, useful microorganism, harmful microorganism, food preservations.

List types of microorganism  
Explain how microbes are useful to us.  
Explain how microbes are harmful to us.

Observation of drop of Pond water, curd, sources, bread mould, orange mould, under the microscope,  
Experiment showing fermentation of dough- increase in volume

## **Ch-13 Sound**

Production of sound, Characteristics of sound, how sound travels, functioning of ear reflection and absorption of sound.

Explain how sound is produced  
Define amplitude  
Explain how human ear works  
Echo & SOHAR working

Demonstrating and distinguishing between different types of sound.  
Producing different types of sound using the same source  
Time period and frequency

## **Ch-3 Synthetic fibre and plastics**

Introduction to synthetic Fibres- types , characteristics  
Plastics- types

Differentiate between synthetic and natural fibres  
List different types of synthetic fibres and their uses.  
Differentiate between thermoplastic and thermosetting plastic

Testing various materials – for action of water, reaction on heating, effect of flame, tensile strength.  
Discussion on topic- "plastic boon or curse.

**Weblink:** [http://www.microbe.org/microbes/what\\_is.asp](http://www.microbe.org/microbes/what_is.asp)

<https://en.wikipedia.org/wiki/Sound>

[www.yourarticlelibrary.com/science/synthetic-fibres-definition-types-and.../31539/](http://www.yourarticlelibrary.com/science/synthetic-fibres-definition-types-and.../31539/)

**REFERENCE BOOKS- universal science, ABC of science**

# AUGUST

## **Ch-18 The universe**

Universe galaxies, stars, satellites and constellations, the solar system

Define solar system and planets  
List few common constellations and their features  
Define light year  
Differentiate between star and planet; meteor and meteorites  
Draw labelled diagram different phases of moon

To prepare the model of solar System/eclipse/various phases of moon

## **CH-5 Coal and petroleum**

Natural resources, fossil fuel- petroleum, natural gases, prevention of energy crisis.

Differentiate between renewable and non- renewable resources.  
Define fuel and fossil fuel.  
Explain how coal and petroleum formed

Discussion on tropic bio fuels as an emerging alternative source of energy.

## **Ch-8 Cell- structure and function**

Unicellular and multi-cellular organisms. Plant and animal cell

Differentiate between unicellular and multicellular  
Differentiate between plant and animals cells

Use of microscope, preparation of a slide, observation of onion cells peel and check cells, observation of difficult parts of cells.

**WEBLINK :** [http://www.nasa.ibibilo.org/selection\\_page\\_new.php?action=search&query=NASA](http://www.nasa.ibibilo.org/selection_page_new.php?action=search&query=NASA)

[www.darvill.clara.net/altenerg/fossil.htm](http://www.darvill.clara.net/altenerg/fossil.htm)

<https://www.youtube.com/watch?v=URUJD5NEXC8>

**REFERENCE BOOKS : universal science, ABC of science**

# SEPTEMBER

## REVISION

# OCTOBER

### CH-11 Force and pressure

Types of force and its effects  
(pressure and its applications in daily life, pressure exerted by liquids,)

Define force, state and its effects, list and define different types of forces.

Define pressure  
Unit of force and pressure.  
Write the application of force and pressure in daily life.

Demonstrating change in speed of a moving object, its direction of motion and shape by applying force measuring the weight of an object as a force ( pull) by the earth using a spring balance.

### Ch-6 Combustion flame and fuel

Combustion, extinguishing a fire, flame, fuels, impact of burning fuels on the environment.

Differentiate between complete and incomplete Combustion  
List the condition necessary for Combustion  
Draw labelled diagram of burning candle.

Light a candle to demonstrate different zones of flame.  
Experiments to show change in ignition temperature and air required for Combustion.

### Ch-10 Reaching the age of adolescence

The endocrine system, puberty and adolescence  
Determine the sex of the baby, health of the adolescence

List the different endocrine glands, hormones they release and their functions. Define puberty and adolescence.  
List the types of changes in boys and girls.  
Explain how the sex of baby determined.

To study the position of endocrine glands, in human body with the help of chart.

**WEBLINK:** <http://www.zephyrus.co.uk.forcetypes.html>  
[www.darvill.clara.net/altenerg/fossil.htm](http://www.darvill.clara.net/altenerg/fossil.htm)  
[http://kidshealth.org/teen/your\\_body/take\\_care/hygiene\\_basics.html](http://kidshealth.org/teen/your_body/take_care/hygiene_basics.html)

**REFERENCE BOOKS :** universal science, ABC of science

# NOVEMBER

### Ch-9 Reproduction

Sexual reproduction, internal and external fertilization, reproduction in humans. Metamorphosis

Define Sexual reproduction  
Differentiate between internal and external fertilization,  
List the productive parts of male and female.

To study reproduction in frog (life cycle with the help of chart/ specimen).

### Ch-12 Friction

Friction, its advantages and disadvantages, fluid friction, minimizing and maximizing friction

Define friction  
Explain advantages and disadvantages of friction

To make a friction tester  
To show that rolling is less than sliding friction

**Ch-19 Pollution of water and air**

Pollution and conservation of water  
Reuses and recycling, steps taken to reduce wastes

List the causes of water and air pollution  
Define portable water and ways to make portable water at home  
List the process involved in waste water treatment

Preparing a list/collecting information about diseases caused by various types of pollution

**WEBLINK:** <http://www.neok12.com/reproductive-system.htm>  
<https://en.wikipedia.org/wiki/Friction>  
[www.eoearth.org](http://www.eoearth.org)

**REFERENCE BOOKS :** universal science, ABC of science

## DECEMBER

**Ch- 15 Chemical effect of electric current**

Electric current  
conduction of electricity through liquids ,  
electrolysis

Define Electric current  
Distinguish between conductor and insulators  
Define electrolysis and electroplating

To make a simple circuit and discuss how electricity flows

To demonstrate the chemical effect of electric current on water

**CH-14 Some natural phenomenon**

Concept of charge and its types, attraction and repulsion of Charges, flow of charges, lightning, safety during earthquakes and lightning.

Write the types of charges, rule of attraction repulsion between the Charges.  
List the ways in which a body can be charged.  
Differentiate between conductors and insulators. Advantages and disadvantages of lightning

Experiments to show charges, their types attraction and repulsion

**WEBLINK :** <https://www.youtube.com/watch?v=8HP3y58y4kU>  
<http://earthquake.usgs.gov/learn/photos.php>

**REFERENCE BOOKS :** universal science, ABC of science

## JANUARY

**BIOLOGY****Ch-7 Conservation of plants and animals**

Biodiversity, flora and fauna, conservation of forest and wild life, biosphere reserves, red data book

Define Biodiversity  
Distinguish b/w flora and fauna,  
List the causes and consequences of deforestation.  
Differentiate between endangered and extinct animals.

Identification of local flora and fauna. Study the map showing wildlife reserves in India.

**WEBLINK :** [www.darvill.clara.net/altenerg/fossil.htm](http://www.darvill.clara.net/altenerg/fossil.htm)  
<http://www.wipapercouncil.org/makepaper.htm>

**REFERENCE BOOKS :** universal science, ABC of science

## FEBRUARY

### REVISION

## SOCIAL SCIENCE

TOPIC	LEARNING OBJECTIVE	LAB ACTIVITY
<p style="text-align: center;"><b><u>HISTORY</u></b></p> <p><b>Ch-1 Where, When &amp; Why</b>                      Modern period in India                      Events-Renaissance and industrial revolution                      Historical sources</p> <p><b>Ch-2 The Expansion of British Power in India</b>                      Mercantilism and trade-wars                      Battle of Panipat &amp; Buxar                      Subsidiary alliance</p> <p style="text-align: center;"><b><u>CIVICS</u></b></p> <p><b>Ch-1 The Need of Law &amp; our constitution</b>                      Need for laws                      Role of constitution                      Laws and Dissent</p> <p style="text-align: center;"><b><u>GEOGRAPHY</u></b></p> <p><b>Ch-1 Natural Resources: Types &amp; Development</b>                      Types of resources-natural, human and human-made.                      Sustainable development</p>	<p>Introduce the changing nomenclature of Subcontinent                      Explain the sources of study &amp; differentiate them</p> <p>Define Mercantilism &amp; describe Anglo-French wars                      Unravel the story of a trading company becoming a political power.</p> <p>Develop an understanding of the rule of law and our involvement with the law                      Appreciate the Constitution as the primary source of our laws</p> <p>Develop an understanding about the earth as the habitat of humankind and other forms of life.                      Appreciate the sustainable development</p>	<p>Timeline- Modern Indian History</p> <p>Map Work- Expansion of British Imperialism</p> <p>Make a rule book for your class &amp; home</p> <p>Make a self-Design poster on the theme "Reduce, Reuse &amp; Recycle"</p>

WEBLINKS : <http://www.kidpast.com/world-history/0008-tools-and-the-stone-age.php>

REFERENCE BOOKS -:LONGMAN VISTAS

## MAY

<p style="text-align: center;"><b><u>HISTORY</u></b></p> <p><b>Ch-3 Rural Life &amp; Society</b>                      Colonial agrarian policies; their effect on peasants and landlords                      Land revenue settlements</p> <p style="text-align: center;"><b><u>CIVICS</u></b></p> <p><b>Ch-2 Ideals of Our Constitution</b>                      Constituent assembly                      Preamble                      Key features of constitution                      Foundation of fundamental rights</p>	<p>Apprise about different land revenue policies</p> <p>Understand the vision &amp; values of constitution                      Define sovereign, socialist, democratic, republic &amp; Secularism                      Appreciate Fundamental rights</p>	<p>Visit to a Farmland-make a report of the information gathered from there.                      Map Work-Revenue settlement</p> <p>Slogan Writing: Soil Conservation</p>
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WEBLINKS : <http://www.amnh.org/ology/archaeology>,

REFERENCE BOOKS : LONGMAN VISTAS

# JULY

## History

### **Ch-4 Colonialism & Tribal Society**

Growth of commercial crops  
Commercialisation of agriculture and Peasant revolt

## CIVICS

### **Ch-3 Parliamentary Government**

Federal system in India  
Union legislature  
Parliamentary form of government  
Composition & role of parliament

## GEOGRAPHY

### **Ch-2 Land & Soil**

Land use in India  
Soil profile and soil formation  
Types of soil

### **Ch-3 Water Resources**

Water Availability & water quality  
Reasons for scarcity of water  
The uses of water & measures taken to conserve water

Discuss how growth of new crops disrupted the life of planters  
Reconstruct histories of tribal societies  
Discuss different forms of tribal societies

Characterise the Union Legislature  
Explain the Importance of parliamentary system of governance  
Appreciate the need of laws

Define the meaning of land resources, their varieties & distribution  
Explain various types of soil  
Appreciate the importance of soil resources

Discuss the availability of fresh drinking water  
Sensitise about scarcity of water  
Appreciate the measures taken to conserve water

Map Work- Places of tribal revolt

Make a list of Rajyasabha Members chosen by Presidents for their contribution in the field of Art, literature, Sports etc...

Group Discussion: The need of Secularism for successful Democracy

Poster Making- sensitise people about rain water harvesting

**WEB LINK : [www.india.gov.in/constitution-parliament](http://www.india.gov.in/constitution-parliament)**

**REFERENCE BOOKS :LONGMAN VISTAS**

# AUGUST

## HISTORY

### **Ch-5 The Revolt of 1857**

Colonial economic policies  
Process of industrialization  
The rebellion in the army and the spread of the movement  
Queen's proclamation in 1858

### **Ch-6 Education & the British Rule**

Indigenous system of education  
Orientalist & Anglicist  
British policies of education

Familiarise with the concept of deindustrialisation  
Point to the changes in the colonial rule after 1857  
Explain the Account of changes in British policy

Appreciate the national education system  
Differentiate Orientalist & Anglist model  
Criticise British educational changes

Map Work- Centre of 1857 revolt

Timeline- Changes in education system

**CIVICS**

**Ch-4 The Executive**

Formation of the Government  
Powers of the president, PM & Council of Ministers  
Civil Services

Describe government & their functions  
Analyse the role of people's agency in legislation of demands

Appreciate the role of civil servants

Discussion: The main point of this year's budget & impact on your family

**GEOGRAPHY**

**Ch-4 Vegetation & the Wildlife**

Natural vegetation forest & wildlife  
Conservation of forests & wildlife

Describe different species of vegetation & Wildlife  
Appreciate the measures of conserving flora & fauna

Map Work: Mark, colour & label the different biomes of India

**WEB LINK :** <http://kids.asiasociety.org/stories/king-stands>

**REFERENCE BOOKS :** LONGMAN VISTAS

**SEPTEMBER**

**REVISION**

**OCTOBER**

**HISTORY**

**Ch-7 Society, Women & Cast**

Social & religious reforms in the 19<sup>th</sup> century  
Role of social women reformers  
Struggle against the cast system

Criticise the social evil in 18<sup>th</sup> century  
Appreciate the role of social reformers  
Familiarise with the writings of the individuals who sought to criticize the cast system

Debate- Have we been totally emancipated women

**Ch-8 Colonialism & Urban Changes**

Presidencies of Calcutta, Bombay & Madras  
Emergence of cantonments  
Urbanisation & Deindustrialisation

Outline the nature of urban development in the 19<sup>th</sup> & 20<sup>th</sup> century  
Describe the process of urbanisation & Deindustrialisation  
Criticise British Economic policies & their implications

Map Work- Cities emerged during colonial period

**CIVICS**

**Ch-5 The Judiciary**

The Indian Judicial System  
Types of cases  
Powers of judiciary  
Independence of Judiciary

Analyse the role of judicial system in India  
Explain the main element of our judicial system  
Appreciate the autonomous judicial system

Web Chart- Judicial set-up in India

**GEOGRAPHY**

**Ch-5 Mineral & Power Resources**

Minerals & Their types  
Distribution of Minerals  
Power Resources  
Conservation of mineral & power resources

Explain mineral, their types & distributions  
Describe power resources  
Develop awareness towards conservation of mineral resources

Article Writing- 'Energy sources should be used in a sustainable ways'

**Ch-6 Agriculture & major crops**

Main features of agriculture in India  
Agricultural problems & Reforms

Explain the feature of agriculture  
Analyse the agricultural problems & reforms

Map Work- cotton, jute, wheat producing states of India.  
PPT-Agriculture & Major Food Crops

**WEBLINK :** <http://kids.asiasociety.org/stories/king-stands>

**REFERNECE BOOKS : LONGMAN VISTAS**

# NOVEMBER

## HISTORY

### **Ch-9 Changes in Literature, Painting & Architecture**

Changes in Literature & Painting  
Art music & dance  
Growth of vernacular languages

### **Ch-10 The Nationalist Movement-I(1885-1918)**

Rise of nationalist moderate, extremists & revolutionaries  
Early phase of nationalism

Discuss how the changes are linked to the emergence of a new public culture  
Sensitise about role of art & painting in evoking nationalism

Map Work- Locate the important British fort & Settlements

Outline the major developments within the national movement  
Appreciate the role of role of revolutionaries in freedom movement

Role Play: Any incident of national movement

## CIVICS

### **Ch-6 The role of Police & the Courts**

Role of police & courts  
Procedure for lodging FIR

Public Prosecutor

### **Ch-7 Marginalisation & Social Justice**

Marginalised groups & tribal  
Strategy to tackle Marginalisation  
Manual Scavenging & Untouchability

Explain the role of police & court  
Analyse what an FIR is & how to file one.  
Appreciate the role of public prosecutor

Visit to nearest Police station- to observe the procedure of filing FIR

Define marginalisation  
Appreciate the strategy to solve their problems  
Criticise untouchability & its forms

Debate- Do we need cast based reservation anymore in India?

## GEOGRAPHY

### **Ch-7 Manufacturing Industries**

Industrial revolution  
Classification of industries  
Factors affecting location of industries  
Distribution of Industries

Explain important forms of manufacturing industries  
Describe different factors affecting industrial growth  
Compare & contrast industrial development with different countries

Classroom Presentation- Manufacturing Industries

**WEB LINK :** <http://prabhu.50g.com/earliest/punchmrk.html>

**REFERNECE BOOKS : LONGMAN VISTAS**

# DECEMBER

## HISTORY

### **Ch-11 The Nationalist Movement-II**

Mahatma Gandhi & the non violent Mass movement  
Independence & partition

### **Ch-12 India after Independence**

Challenges faced after 1947  
Planned economic development

## CIVICS

### **Ch-8 Economic Presence of the Government**

Economic Problems  
Five Years Plan  
Role of Government in developing Infrastructure

## GEOGRAPHY

### **Ch-8 Human Resources**

Importance of composition  
Distribution & factors affecting population

Appreciate the role of Mahatma Gandhi  
Discuss Indian Independence & partition

Discuss the challenges faced by newly formed Indian government  
Appreciate Five years plan & Economic Development

Discuss poverty & Unemployment  
Explain Five years plan  
Appreciate the role of government in improving infrastructure

Analyse the importance of human resources  
Explain the factors affecting growth & distribution population

Timeline- Arrange the photographs of freedom movement in India

Group Discussion- The present government in India & opportunities that lie ahead.

Project Making- Swachh Bharat Abhiyan

Creative Writing- Female Foeticide

**WEB LINK :** [http://en.wikipedia.org/wiki/geography\\_ofindia](http://en.wikipedia.org/wiki/geography_ofindia)  
[http://en.wikipedia.org/wiki/Geography\\_of\\_India](http://en.wikipedia.org/wiki/Geography_of_India)

**REFERNECE BOOKS : LONGMAN VISTAS**

## JANUARY

## REVISION

## FEBRUARY

## REVISION

# COMPUTER

UNITNO. & LESSON KEY CONCEPTS	LEARNING OBJECTIVE	PRACTICAL
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## APRIL

<p><b>Chapter -1 Networking Concepts</b> Networking and its Advantages Network Components Types of Networks</p> <p><b>Chapter-2 Log On To Access</b> Introduction to database Microsoft Access and its features Creating Blank Database</p>	<ul style="list-style-type: none"> <li>To understand the meaning and importance of network.</li> <li>To define Terminology of Network- Node, Server, NIU IP and domain name</li> <li>To know about LAN,WAN,MAN</li> <li>To introduce with database and its importance</li> <li>To Design Database</li> <li>To create blank database</li> </ul>	<p>Designing Database</p>
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**REFERENCE BOOK- Computer Science**

**WEB LINK:** <https://www.lifewire.com> > ... > [Internet & Network How-Tos](#) , [https://en.wikipedia.org/wiki/Microsoft\\_Access](https://en.wikipedia.org/wiki/Microsoft_Access)

## MAY

<p><b>Chapter-3 Working With Tables</b> Data Types Creating Table in Design View Primary Key Adding/Deleting/Moving a Field</p>	<ul style="list-style-type: none"> <li>To create Table in MS Access</li> <li>To make a table In MS Access.</li> </ul> <p>Entering data in MS Access Table</p>	<p>Creating Table in MS Access</p>
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**REFERENCE BOOK- Computer Science**

**WEB LINK:** [https://en.wikipedia.org/wiki/Microsoft\\_Access](https://en.wikipedia.org/wiki/Microsoft_Access)

## JULY

<p><b>Chapter-4 Working With Queries</b> Setting a Relationship between Tables Creating Query Forms and Reports</p> <p><b>Chapter-5 Adobe Photoshop CS 3</b> Features of Photoshop Creating a New File Inserting Image and Text Selection Tools Crop/Move Tool</p>	<ul style="list-style-type: none"> <li>To set relationship between tables</li> <li>To create Table, Query, Record and Form</li> <li>To explain Features of Photoshop</li> <li>To Create a New File</li> <li>To Insert Image and Text</li> <li>To Selection Tools</li> <li>To Crop/Move Tool</li> </ul>	<p>Creating Query, Record and Form</p> <p>Creating file in Photoshop Inserting image and edit in Photoshop</p>
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**REFERENCE BOOK- Computer Science**

**WEB LINK:** [cflrs.in/blog/working-with-flash-cs3/working-with-flash-cs3/](https://cflrs.in/blog/working-with-flash-cs3/working-with-flash-cs3/)

## AUGUST

<p><b>Chapter-6 More On Photoshop CS3</b> Painting Tools, Viewing Tools, Layers</p>	<p>To use Painting Tools To View tool in Photoshop To Create, rename and delete layer</p>	<p>Creating, renaming and deleting layer</p>
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**REFERENCE BOOK: Computer Science**

**WEB LINK:** [cflrs.in/blog/working-with-flash-cs3/working-with-flash-cs3/](https://cflrs.in/blog/working-with-flash-cs3/working-with-flash-cs3/)

# SEPTEMBER

## Revision

# OCTOBER

### Chapter-7 Visual Basic 2008

Introduction to VB 2008  
Event Driven Programming  
VB IDE  
Components of Visual Basic

- To introduce VB as a programming language
- To explain VB as a Event Driven Programming
- To identify the components of Visual Basic

### Chapter-8 More on Visual Basic 2008

Adding Image and Shape in a Form  
Variables/Operators in VB  
Arithmetic/Relational/Logical Operators  
Control Statements  
Radio Button, Checkbox Control

- To add image in VB Form
- To use Variables/Operators in VB
- To use Arithmetic/ Relational/ Logical Operators
- To make program using Control Statements
- To use Radio Button, Checkbox Control in VB programs

Add image in VB Form  
Making program using Arithmetic/ Relational/ Logical Operators  
Making program using Control Statements  
Making program using Radio Button, Checkbox Control in VB programs

### REFERENCE BOOK- Computer Science

WEB LINK: [https://en.wikipedia.org/wiki/Visual\\_Basic](https://en.wikipedia.org/wiki/Visual_Basic)

# NOVEMBER

### Chapter-9 Understanding HTML

History of HTML  
HTML Tags  
How to create HTML Document  
Types of Elements  
Changing Font, Size, Text Colour, Background

- To define HTML
- To explain its capabilities
- To create programs using various tags of HTML
- To use Table tags- TD, TR, TH to create table in HTML

creating programs using various tags of HTML  
create table in HTML

### Chapter- 10 Using List and Creating A Table

<UL> Unordered List  
Ordered List, Marquee Text  
Inserting Image

- To create list using Bullets and Number
- To Insert Images Tables

creating list using Bullets and Number in HTML  
Designing Web Page  
Inserting Images and Tables

### REFERENCE BOOK- Computer Science

WEB LINK: [www.w3schools.com/html/](http://www.w3schools.com/html/)

# DECEMBER

### Chapter-11 Surfing Internet

World Wide Web  
Multimedia  
Real-Time Communication  
Skype  
Creating Blog

- To explain World Wide Web
- Multimedia
- Real-Time Communication
- To communicate on Skype
- To Create Blog Account

Creating account on Skype and communicate with friend  
Creating Blog account

### REFERENCE BOOK- Computer Science

WEB LINK: [https://en.wikipedia.org/wiki/The\\_Virus\\_\(band\)](https://en.wikipedia.org/wiki/The_Virus_(band))

# JANUARY-FEBRUARY

# G.K.

## APRIL

### TOPIC

### LEARNING OBJECTIVE

- Out of this World
- The Mighty Dinosaurs
- Ruling the world
- Sports Legend
  
- Awesome body facts
- Life in deserts
- In your Genes
  
- And the Oscar goes to...
- Plugged in
- In the 20<sup>th</sup> century
- Sobriquets of Indian cities
- Traditional Foods of the world

- To recapitulate the topics covered in earlier classes
- To explore the world of dinosaurs
- To identify the ruling monarch as of 2016
- To identify the sportsmen who have been exceptional in the sports they have represented
- To describe how the various body parts of living beings are developed and adapted to suit their specific needs
- To identify desert plants and animals and how they have adapted to desert conditions
- To describe how the features pass from parents to their young ones
- A sneak peak to movie who made it to Oscars
- To recapitulate the knowledge about computers
- To explore briefly about history of 20<sup>th</sup> century
- To identify the Indian cities with their nick names
- To explore the famous dishes of various countries

## MAY

- Mountains of Smoke & Fire
- Union territories of India
  
- Women of substance
  
- Bring Fantasy Alive

- How the volcanic eruptions have effected human history
- To enhance the understanding about the union territories of India
- To appreciate women who are noted for their remarkable achievements
- To appreciate the role of visual effects in making a movie success

## JULY

- Traditional music instruments
- Making a zoetrope
  
- Robotics
- Football clubs of India
- Unique Animals
- Vocabulary
- Photo finish
  
- Artists and their art
  
- Time to be logical
- Global Indian Achievers

- To describe various instruments and their uses
- To appreciate the entertainment before the invention of cinema
- To define what is a robot and how it works
- To identify the football clubs in India and their captains
- To Identify the rare and amazing animals and Birds
- To describe new words with their meanings
- To appreciate role of camera in collection of memories and evidences of human history
- To identify the work of some great painters and the story behind them
- To develop logical reasoning
- To identify Indians who have won worldwide fame

## AUGUST

- Currency wise
  - On a science Track
  - Basketball Drills
  - Majestic Hunters of the sky
  - Medical Discoveries
  - Talking about money
  - Cities with glorious past
- To describe currencies of different countries and stories behind them
  - To quickly recapitulate common scientific facts and develop reasoning
  - To describe the game of basketball with its rules
  - To describe and explain the world of extraordinary birds of prey
  - To explore the scientists and their record breaking discoveries in the field of medicine
  - To recapitulate the knowledge about money and financial terms
  - To identify the ancient Indian cities with their impact on history

## SEPTEMBER

## OCTOBER

- Visiting the North east
  - Natural wonders of the world
  - Greatest Villains
  - More than just stories
  - Insect Myths
  - Points to Ponder
- To explore interesting facts about north-eastern states
  - To explain some natural phenomenon of the earth
  - To identify famous villains of entertainment world
  - To identify the autobiographies with their writers
  - To familiarise with some interesting facts about insects
  - To sensitise the students about the burning concerns by making projects on them

## NOVEMBER

- Technology today
  - Hybrid cars
  - Travelling Tales
  - Ultimate basics
  - Stories in sculptures
  - Recognising common diseases
  - Mind Bogglers
  - Know your game
- To sensitize about the latest technological inventions
  - To describe how these cars can save environment
  - To identify famous travelogues with their authors
  - To explore a new game by learning the rules
  - To explain the stories related to the sculptures and their artists
  - To sensitize students about common diseases and their causes
  - To enhance the mental maths ability of the students
  - To identify the various video games from their features

## DECEMBER

- Architectural Feats
  - In Space
  - The country's Shield
  - Puzzles
  - Net savvy
  - Flora, Fauna of Indian states
  - Unique Trees
  - Andaman, Nicobar Islands
  - Famous Indian Authors
  - The Saree Story
  - Rivers and Lakes that can kill
- To explore some spectacular modern buildings & structures
  - To describe the several space crafts, space explorations
  - To appreciate the Indian Defence services
  - To develop logical reasoning
  - To identify & appreciate the stars of the world of Internet
  - To recapitulate the knowledge about Indian vegetation
  - To explore some unusual trees found around the world
  - To develop more understanding about these islands
  - To identify Indian authors with their work
  - To identify the place of origin of different varieties of sarees
  - To explore some of the most dangerous rivers and lakes o

# JANUARY

- Try Logic
- Quiz Yourself 3
- Our changing World
- Model Test Paper I & II

- To develop logical reasoning
- To recapitulate
- To sensitize students about ever changing world around us
- To recapitulate

# FEBRUARY

## REVISION

# PHYSICAL EDUCATION

## TOPIC

## LEARNING OBJECTIVE

### APRIL & MAY

#### Cricket

- Batting Skills
  1. Grip of the bat.
  2. Stance
  3. Defence
  4. Drive
- Bowling skills
  1. Grip of the ball
  2. Arm Action
  3. Run up
- Fielding skills
  1. Throwing
  2. Diving
- Inter house Cricket tournament
- Inter house tug of war competition.

- Students will learn the basic skills of the game.
- Leadership quality will be developed in the students.
- Students will learn how to work in team.
- Competitive skills will develop in the children through match practice.
- Encourage physical fitness.

### JULY

#### Yoga

- Asana
  1. Standing Asana
  2. Sitting Asana
  3. Lying Asana
  4. Meditative Asana
- Pranayama
- Inter House yoga championship

- Yoga increases the flexibility of the students.
- Through yoga practice students will remain fit.
- Competitive skills will develop in the students through inter house yoga competition.

### AUGUST

#### Football

- Kicking Skills
  1. Kicking from inside of the foot
  2. Kicking from Instep of the foot.
- Receiving & Trapping skills
  1. Receiving a grounded ball
  2. Receiving Air ball
- Heading Skills
- Goal keeping skills
- Inter House Football Tournament

- Students will learn the basic skills of the game.
- They will learn how to play the game.
- Leadership quality will be developed in the students.
- Students will learn how to work in a team.
- Competitive skills will develop in the children through match practice.

# SEPTEMBER

## Physical fitness test

- Speed test
  - Endurance test
  - Flexibility test
  - Strength test
- We will check the fitness level of the students through practical tests.

# OCTOBER

## Volleyball

- Service skills
    1. Under arm Service
    2. Tennis service
  - Receiving skills
  - Smashing Skills
  - Blocking Skills
- Students will learn the basic skills of the game.
  - Leadership quality develops in students.
  - Students will learn how to work in the team.
  - Competitive skills will develop in children through match practice.

# NOVEMBER

## Sports day

### Athletics

- Running Event
    1. Starting Technique
    2. Arm Action
    3. Finishing Technique
  - Throwing Event
    1. Stance/Style/Grip
    2. Placement
    3. Releasing
  - Jumping Event
- Students will learn the basic Technique of the different events mentioned.
  - They will learn the techniques of the events.
  - Students will learn how to work in a team.
  - Competitive skills will develop in the children through Races.

# DECEMBER

## Table Tennis

- Stance
  - Grip of the racket
    1. Shake hand Grip
    2. Pen Hold Grip
  - Service
    1. Fore-hand Service
    2. Back-hand service
  - Returning Skills
  - Attacking skill
  - Inter House Table Tennis Competition
- Students will learn the basic skills of the game.
  - They will learn how to play the game.
  - Students will learn how to work in a team.
  - Competitive skills will develop in the children through match practice.

# JANUARY

## Badminton

- Stance
- Grip of the racket
- Service
- Tossing
- Dropping
- Smashing
- Inter House Badminton Tournament

- Students will learn the basic skills of the game.
- They will learn how to play the game.
- Students will learn how to work in a team.
- Competitive skills will develop in the children through match practice.

# FEBRUARY

## Physical fitness test

- Speed test
- Endurance test
- Flexibility test
- Strength test

- We will check the fitness level of the students through practical tests.

# DANCE

- D – Do your personal best**
- A - Always show respect**
- N – Negativity is unacceptable**
- C – Come prepared**
- E - Everyone and their ideas are important**

## TOPIC

## LEARNING OBJECTIVE

### APRIL & MAY

#### Basic movement

- Hand movements
- Shoulder movements
- Leg movements
- Neck movements
- Belly movements

- Students will learn the basic movements of the dance form. They will learn how to feel the music and do the steps in rhythm.

### JULY & AUGUST

#### Patriotic Song

- Expressions
  - Movements with props
  - Patriotism
- Leadership

- Students will learn how to dance with props. They will learn how to give expressions according to lyrics/dance form.

### OCTOBER & NOVEMBER

#### Group Drills

- Movement with prop
  - Synchronization
- Formation

- Students will learn how to dance in different formation in a synchronized manner.

### DECEMBER & JANUARY

#### Patriotic song

- Expressions
  - Movements with props
  - Patriotism
- Leadership in formation

- Students will learn how to dance with props. They will learn how to give expressions according to lyrics/dance form.

# DRAWING

## TOPIC

## LEARNING OBJECTIVE

### APRIL-JULY

#### **ART BOOK**

- Basic elements of art
- Drawing material
- Method of drawing and sketching
- Method of painting
- Method of print making

#### **CRAFT WORK (Purpose-holiday home work)**

- Decorative Kite
- Tile painting

#### **ART FILE**

Object based exercises

- Fruits & vegetables
- Birds
- Animals
- Reptiles

They acquire knowledge of the fundamentals of art and design, gain experience with the required tools, materials and techniques for making *art* and design

Creative drawing skills will improve.

Creative drawing skills will improve.

### AUGUST

#### **ART BOOK**

Objective drawing step by step

- Fruit (step by step)
- Vegetable (step by step)

#### **CRAFT WORK**

- Bottle art
- Gift box with newspaper in tri-colour.
- Mosaic art (photo frame)

#### **ART FILE**

- Fruit composition
- Vegetable composition
- Object and arrangement

Learn to create usable objects from waste material.

Creative drawing and colouring skills will improve

Learn to create usable objects from waste material.

### OCTOBER

#### **ART BOOK**

- Parts of face
- portrait
- Figures (lines and blocks)
- Cartoon drawing
- Snake charmer
- Memory drawing-village scene

#### **CRAFT WORK**

- Diya decoration
- Card envelope

#### **ART FILE**

Tradition based exercises-

- Festivals (how to draw)
- Story board
- Historical monuments
- Freehand pattern designs
- Mendhi

Creative drawing and colouring skills will improve

learn to create usable objects from waste material

Creative drawing and colouring skills will improve

# NOVEMBER- JANUARY

## ART BOOK

Environment based exercises

- Flowers (draw and colour)
- Tree study (pencil, brush, ink pen and sketch pens)
- Landscape step by step(pencil, poster and pastel)
- Birds drawing(pencil, brush and ink pen)

## Craft Work

- sports day(craft work)
- Christmas (craft work)

## ART FILE

Experience based exercises

- Paper collage /photo collage
- Spray-air blow techniques
- Marbling and frottage
- Poster

Creative drawing and colouring skills will improve.

Students will learn about the folk art

learn to create usable objects from waste material

Developing new ways of thinking, and creating.

Creative drawing and colouring skills will improve.

They will also learn different techniques

learn to create usable objects from waste material

# FEBRUARY REVISION