

## SYLLABUS CLASS VII (2022-23)

### ENGLISH

#### CLASS – 7

**COURSE BOOK : CAMBRIDGE LOWER SECONDARY ENGLISH LEARNER'S BOOK – 7**

**GRAMMAR : CAMBRIDGE GRAMMAR AND WRITING SKILLS LERANER'S BOOK – 7**

#### PERIODIC – 1

##### **APRIL**

##### **NO. OF PERIODS**

##### COURSE BOOK : UNIT 1

1.1 The Start of An Adventure	(2)
1.2 Quest	(2)
1.3 Train Trouble	(2)
1.4 A Flared Journey	(2)
1.5 Danger	(2)

##### GRAMMAR:

PAST TENSE (ALL FORMS) (4)

PRONOUNS (2)

WRITING : STORY WRITING (3)

##### **MAY**

##### **NO. OF PERIODS**

##### COURSE BOOK : UNIT 2

2.1 Calvin And Dora	(2)
2.2 Down The Hole	(2)
2.3 Gold!	(2)
2.4 Glar The Master	(2)
2.5 Back Down The Hole	(2)
2.6 Turkey	(2)

##### GRAMMAR :

PRESENT TENSE (ALL FORMS) (4)

ADJECTIVES (2)

WRITING : DIARY ENTRY (2)

ENRICHMENT ACTIVITIES :

1. (1.6) Creating an Adventure Story: The Super Hero Stories (Coursebook Pg 31)
2. Extempore : Pick the chit and speak
3. Story Enactment : (Unit -2 {Group Activity})

हिंदी (कक्षा -7)

पाठ्यपुस्तक - 1. वल्लरी (भाग 6)

2. अपना व्याकरण

Periodic - I

अप्रैल

कालांश

वल्लरी :- पाठ -1 प्रभात की नई किरणें (3)

पाठ - 2 बुद्धिमान पक्षी (3)

पाठ - 3 लड़की (कक्षा गतिविधि) (3)

कक्षा गतिविधि - (मौखिक) "लड़का - लड़की एक समान की भावना को जागृत करने के लिए, इसके पक्ष और विपक्ष में अपने विचार प्रस्तुत करते हुए, समूह में वाद - विवाद कीजिए। (पाठ लड़की) (1)

मई

कालांश

वल्लरी :- पाठ - 4 मैं हूँ मानव (2)

व्याकरण :- 1. भाषा, बोली, लिपि (2)

2. ध्वनी वर्ण, लिपियाँ (2)

3. उपसर्ग प्रत्यय (शब्द - रचना ) (2)

4. विराम चिन्ह (2)

5. (शब्द-भंडार) पर्यायवाची शब्द (1-11) (1)

विलोम शब्द (अँधेरा- होनी) (1)

अनेकार्थी शब्द (अंग-पर) (1)

श्रुतिसम भिनार्थक शब्द (अंक-उर्पुयुक्त)	(1)
वाक्यांशो के लिए एक शब्द (1-15)	(1)
10. मुहावरे (1-20)	(1)
11. लोकोक्तियाँ (1-10)	(1)
12. अपठित गद्यांश	(1)
13. अनुच्छेद लेखन	(1)
14. पत्र लेखन (अनौपचारिक पत्र)	(1)
15. सूचना	(1)

कक्षा गतिविधि (मौखिक) कबीर के दो (दोहे) नीति परख अर्थ सहित कक्षा में सुनाइए, जिनसे हृदय परिवर्तन पर जोर दिया गया हो | (दोहे का गायन लय-बद्धता के साथ हिना चाहिए |) (पाठ 4. मैं मानव हूँ |) (1)

कक्षा गतिविधि (लिखित) आज के बढ़ते तकनीकी युग में जहाँ मनुष्य प्रगति कर रहा है, वहीं मनुष्य पशु-पक्षी और प्रकृति के लिए संकट बनता जा रहा है, किस कारण से पक्षियों की संख्या लगातार घटती जा रही है, वह कारण लिखिए और जिन पक्षियों की संख्या कम हो रही है, उनके चित्र चिपकाइए या बनाइए | बचाव के उपाय सुझाइए | (पाठ-बुदिमान पक्षी) (1)

श्रवण वाचन कौशल

इच्छानुरूप ग्रहकार्य

NOTE :- Experiential learning project will be assessed.

#### HALF YEARLY

जुलाई	कालांश
वल्लरी :- पाठ - 5 आत्मबल	(3)
पाठ - 6 पीले गुलाबों की महक	(3)
पाठ - 7 आप भले तो जग भला	(3)
व्याकरण :- 1. संधि तथा संधि विच्छेद	(2)
2. संज्ञा, सर्वनाम	(1)
3. विशेषण, क्रिया	(1)
4. (शब्द भंडार):- पर्यायवाची शब्द (12-22)	(1)

विलोम शब्द (कीर्ति-दंड) (1)

अनेकार्थी शब्द (पूर्व-जलधर) (1)

श्रुतिसम भिनार्थक शब्द (कंकाल-निधन) (1)

वाक्यांशो के लिए एक शब्द (16-30) (1)

कक्षा गतिविधि (मौखिक) :- "मन के हारे हार हैं, मन के जीते - जीत ।" इस सुविचार को ध्यान में रखते हुए किसी एक महान हस्ती के जीवन का वर्णन कक्षा में कीजिए, जिन्होंने विपरीत परिस्थितियों का सामना डटकर किया और सफलता प्राप्त की । (पाठ - आत्मबल) (1)

अगस्त

कालांश

वल्लरी :- पाठ - 8 गिरिधर की कुंडलियाँ (3)

पाठ - 9 काश ! मैं मोटर-साइकिल होता (3)

व्याकरण - 9.मुहावरें (21- 40) (1)

10. लोकोक्तियाँ (11- 20) (1)

11. विराम - चिन्ह (1)

12. अपठित गद्यांश (1)

13. डायरी लेखन (1)

14. अनुछेद लेखन (1)

15. पत्र लेखन (औपचारिक पत्र) (1)

कक्षा गतिविधि (मौखिक) :- अपने विचारों की अभिव्यक्ति नीचे दिए गए तिन विषयों में से किसी एक विषय का चयन कीजिए । (पाठ - 9 काश ! मैं मोटर-साइकिल होता) (1)

1. काश ! मैं एक राजनेता होता

2. काश ! मैं शिक्षा मंत्री होता

3. काश ! मैं स्वास्थ्य मंत्री होता

कक्षा गतिविधि :- (लिखित) कवि गिरिधर के चित्र सहित उनकी रचनाओं का वर्णन कीजिए (किन्ही दो)

(पाठ - गिरिधर की कुंडलियाँ) (1)

श्रवण वाचन कौशल

इच्छानुसार ग्रहकार्य

ग्रीष्मवकाश ग्रहकार्य

पुनरावृत्ति :- पाठ - 3 लड़की (1)

व्याकरण :- पत्र लेखन (अनौपचारिक) (1)

संज्ञा, सर्वनाम, विशेषण (2)

PERIODIC - II सितम्बर

कालांश वल्लरी :- पाठ 10 - हिम्मत से जिंदगी हैं (3)

पाठ 11 - आत्माभिमान (3)

कक्षा गतिविधि (मौखिक) - किसी भी क्षेत्र में नोबेल पुरस्कार प्राप्त व्यक्तियों में से किसी एक व्यक्ति का चयन करके उनकी उपलब्धियों से आप किस प्रकार प्रभावित हैं अभिनय के माध्यम से कक्षा में दर्शाइए |

(पाठ- हिम्मत से जिन्दगी हैं |) (1)

व्याकरण :- 1. काल (1)

2. वाक्य और वाक्य के भेद (2)

(शब्द भंडार) 3. पर्यायवाची शब्द (23-34) (1)

4. विलोम शब्द (दुआ-लौकिक) (1)

5. अनेकार्थी शब्द (ज्येष्ठ-रास) (1)

6. श्रुतिसम भिनार्थक शब्द (पथ-शस्त्र) (1)

7. वाक्यांशों के लिए एक शब्द (31-45) (1)

अक्तूबर

कालांश

वल्लरी :- पाठ - 12 हीरा और कोयला (3)

पाठ - 13 किन्नर कैलाश से मानसरोवर कैलाश तक (3)

व्याकरण :- 8. मुहावरे (41-60) (1)

9. लोकोक्तियाँ (21-30) (1)

10. अपठित गद्यांश (1)

11. अनुच्छेद (1)

12. पत्र लेखन (औपचारिक) (1)

13. संवाद लेखन (1)

14. सूचना लेखन (1)

कक्षा गतिविधि (मौखिक) - रूप-स्वरूप नहीं, गुण और चरित्र व्यक्ति की पहचान होते हैं, इस विषय पर मौखिक अभिव्यक्ति कक्षा में प्रस्तुत कीजिए | (पाठ-12 हीरा और कोयला) (1)

कक्षा गतिविधि (लिखित) - स्वतंत्रा आंदोलन के समय जितनी भी घटनाएं हुईं उनमें से किन्हीं दो घटनाओं का चित्र सहित कोलार्ज बनाकर उस घटना से सम्बन्धित 20-30 शब्दों में लिखिए | (पाठ - आत्माभिमान) (1)

श्रवण वाचन कौशल

इच्छानुसार ग्रहकार्य

NOTE :- Experiential learning project will be assessed.

### ANNUAL EXAM

नवम्बर	कालांश
वल्लरी :- पाठ - 14 भगवान के डाकिया	(3)
पाठ - 15 शहीद बकरी	(3)
पाठ - 16 अद्वितीय महिला शासिका : अहिल्ल्याबाई होल्कर (जीवनी)	(3)
व्याकरण :- 1. अव्यय	(1)
2. संज्ञा की व्याकरणिक कोटियाँ	(1)
(शब्द भंडार) 3. पर्यायवाची शब्द (35-45)	(1)
4. विलोम शब्द (लाभप्रद-हिंसा)	(1)
5. अनेकार्थी शब्द (वर-हल)	(1)
6. श्रुतिसम भिनार्थक शब्द (शुल्क - हल)	(1)
7. वाक्यांशों के लिए एक शब्द (46-60)	(1)
8. मुहावरे - (61-80)	(1)
9. लोकोक्तियाँ (31-39)	(1)
कक्षा गतिविधि :- (मौखिक) - "नारी अबला नहीं सबला हैं  " इस विषय पर कक्षा में अपने विचार स्पष्ट कीजिए	(1)

दिसम्बर	कालांश
वल्लरी :- पाठ 17 - चेतक की वीरता	(3)
पाठ 18 - पंच परमेश्वर	(3)
व्याकरण :- 10. अपठित गद्यांश	(1)
11. अनुच्छेद	(1)

12. पत्र लेखन (अनौपचारिक)	(1)
13. संवाद लेखन	(1)
14. विज्ञापन लेखन	(1)
(मौखिक)- कवि ने पक्षी और बादल को भगवान के डाकिया कहा है, प्रकृति के और कौन-कौन से अपादान (साधन) है, जो हमें भगवान का संदेश देते हैं, सोचिए और किसी भी एक पर अपने विचार व्यक्त कीजिए। (भगवान के डाकिए)	(1)
कक्षा गतिविधि (लिखित) प्रेमचंद्र जी द्वारा रचित किन्हीं चार कहानियों और उपन्यासों का चित्र सहित कोलार्ज बनाइए और अपनी मनपसंद प्रेमचंद्र जी की किसी एक कहानी का वर्णन अपने शब्दों में लिखिए। (पाठ - पंच परमेश्वर)	(1)
पुनरावृत्ति :- पाठ -11 आत्माभिमान	(1)
पाठ - 12 हीरा और कोयला	(1)
पाठ - 4 मैं हूँ मानव	(1)
व्याकरण :- संवाद लेखन	(1)
पत्र लेखन (अनौपचारिक)	(1)

जनवरी	कालांश
पुनरावृत्ति :-	
वल्लरी :- पाठ - 1. प्रभात की नई किरणें	(1)
पाठ -6. आप भला तो जग भला	(1)
पाठ -13. किन्नर कैलाश से मानसरोवर कैलाश तक	(1)
व्याकरण :-1. पत्र लेखन (औपचारिक)	(1)
2. अनुच्छेद लेखन	(1)
3. संवाद	(1)
4. अपठित गद्यांश	(1)
5. सूचना लेखन	(1)
6. विज्ञापन	(1)
7. शब्द भंडार	(2)

श्रवण वाचन कौशल

इच्छानुसार ग्रहकार्य

NOTE :- Experiential learning project will be assessment

## MATHEMATICS

### CLASS - 7

Text Book : WOW MATHS

Practice Manual : Thinking Classrooms

### Periodic - I

		No. of Periods
April	: Chapter-1 Integers	(11)
April & May	: Chapter-2 Fractions	(8)
	Chapter-4 Decimals	(10)
May & July	: Chapter-13 Lines and Angles	(12)

**Enrichment Activities:** (In Maths Project File)

- 1) To represent the product of decimal numbers on a square by drawing horizontal, vertical lines and shading :
  - a)  $0.3 \times 0.7$
  - b)  $0.5 \times 0.5$(Ch-4: Art Integration)
- 2) To verify by paper cutting and pasting that if two lines intersect at a point, then each pair of vertically opposite angles are equal. (Ch-13: Fun With Maths)
- 3) To verify by paper cutting and pasting that if two parallel lines are cut by a transversal then
  - i) Each pair of corresponding angles are equal
  - ii) Each pair of alternate angles are equal.
  - iii) Each pair of interior angles on the same side of the transversal is supplementary.(Ch-13: Experiential Act)

**Note :**

- Maths project file and notebook will be assessed.
- Experiential learning project will be assessed.

### Half-Yearly

		No. of Periods
July	: Chapter-3 Rational Numbers	(9)
July & August	: Chapter-14 Triangle and its properties	(13)
August	: Chapter-6 Algebraic Expressions	(10)
Aug.+ Sept.	: Chapter-5 Exponents	(9)
September	: Chapter-21 Probability	(6)
	: Chapter-17 Reflection and Rotational symmetry (Activity Based)	(3)

**Enrichment Activities:** (In Maths Project File)

- 4) To verify that exterior angle of triangle is equivalent to the sum of the two interior opposite angles using tangram pieces. (Ch-14 : Hands- On - Activity)



5) To verify using broomsticks, that a triangle can be drawn only if the sum of lengths of any two sticks (sides) is greater than the third side. (Ch-14 : Maths Eye)

6) To find the angle of rotation and order of rotational symmetry of different figures using geo-board and rubber bands. (Ch-17: Maths Connect)

**Repeated Chapters:** Chapter -2: Fractions  
Chapter -4 : Decimals

## Periodic - II

			No. of Periods
October	: Chapter-7	Linear Equations	(13)
Oct & Nov	: Chapter-19	Perimeter And Area	(13)
November	: Chapter-20	Data Handling	(10)
Nov-Dec	: Chapter-8	Ratio And Proportion	(6)
	: Chapter-15	Congruence of Triangles (Activity Based)	(3)

**Enrichment Activities:** (In Maths Project File)

7) To compare the performance of the marks obtained in all the subjects by a student in the first and second periodic by drawing a double bar graph.

(Ch-20 : To check your progress)

8) To investigate the RHS congruence criterion using graph paper. (Ch-15 : Think Back)

9) To derive the formula for the area of a circle by paper cutting and pasting.

(Ch-19 : Demonstration)

**Note :**

- **Maths project file and notebook will be assessed.**
- **Integrated project will be assessed.**

## Annual Exam

			No. of Periods
December	: Chapter-10	Percentage	(7)
January	: Chapter-11	Profit And Loss	(9)
	Chapter -12	Simple Interest	(8)
February	: Chapter-9	Average, Speed, Distance and Time	(10)
	: Chapter-16	Constructions	(10)
	: Chapter-18	Visualizing Solid Shapes (Activity Based)	(3)

**Enrichment Activities:** (In Maths Project File)

10) To find the other specifications required for constructing a right-angled triangle under different criterion, if the measure of a side and an angle are given.

(Ch-16: Learning beyond -individual activity)

11) To generalize the formula for finding the number of vertices, edges and faces for different solids using Euler's formula. (Ch-18 : Experiential Act)

12) To understand the best deal by discount. (Ch-11: Group Activity)

**Repeated Chapters:** Chapter - 1: Integers (PD-1)  
Chapter - 6 : Algebraic Expressions (HY)  
Chapter – 19 : Perimeter And Area (PD-2)

## **SCIENCE**

**Text Book** : SCIENCE VOYAGE  
: Practice Manual  
: Science Practical Book

<b>Periodic -I</b>		<b>No. of periods</b>
	<b>April</b>	
Lesson 1	: Nutrition in plants	(8)
Diagram	: Stomata	
Lesson 3	: Fiber to Fabric	(6)
Diagram	: Life cycle of silkworm	
	<b>May</b>	
Lesson 4	:Heat and temperature	(12)
Diagram	:A thermos flask	
Lesson 7	:Weather,climate and adaptation	
Lesson 8	:Soil (Activity Based)	(2)

### **Subject Enrichment Activities**

1. To study the saprotrophic mode of nutrition in growing fungus. (To be Done in practical file)
2. To show that sunlight is necessary for photosynthesis.(Pg-6)-( experiential learning)
3. To check the purity of silk threads chemical test.( to be done in project file)
4. To study the characteristics of cotton, silk, wool and nylon fibres.( to be done in practical file)
5. To prove that hotness and coldness are relative terms.(Pg-46)-( experiential learning)
6. To show that heat travels through metals by conduction.( to be done in practical file)
7. To show that heat transfer in water is due to convection.( to be done in practical file)
8. To show that the black bodies are better heat absorbers then the white body.( to be done in project file)
9. To study the weather reports of the last one week.( to be done in project file)
10. PowerPoint presentation-(Hydroponics)  
The process of growing plants in sand, gravel or liquid with addition of nutrients but without soil is referred to as hydroponics.  
Make a PowerPoint Presentation on hydroponics.(Pg-15)

**Half Yearly**

**No. of periods**

## July

Lesson 2	:Nutrition in animals	(12)
Diagram	:Nutrition in Amoeba,Types of teeth,Peristalsis	
Lesson 12	:Motion and time	(8)
Diagram	:Simple pendulum,Distance- time line graphs for uniform and non uniform motion.	

## August

Lesson 6	: Acids,bases and salts	(8)
Lesson 9	: Respiration	(13)
Diagram	: The human respiratory system, Exchange of gases in alveoli,Movement of diaphragm	

## September

Lesson 18	: Waste Management(Activity Based)	(2)
Repeated lesson : L-4 Heat and temperature		

### Subject Enrichment Activities

1. To show that saliva break down starch into sugar.( to be done in practical file)
2. To determine the time period of a simple pendulum.( to be done in practical file)
3. To measure the average speed of a moving ball.( to be done in project file)
4. To test the acidic or basic nature of different solutions by using red and blue Litmus Paper.( experiential learning)
5. To show the process of neutralisation.( to be done in practical file)
6. To test the basic nature of different solutions by using turmeric paper as an indicator.( to be done in project file)
7. To show that exist there contains carbon dioxide.( to be done in practical file)
8. To prove that the air we breathe out contains carbon dioxide.( experiential learning)
9. To demonstrate the cleaning process of wastewater.( demonstration)- to be done in project file
10. Model making( art integration)- Make a model to demonstrate the mechanism of breathing.

## Periodic -II

### No. of periods

### October

Lesson 5	: Physical and chemical changes	(10)
Diagram	:Crystallization	
Lesson 13	: Electric current and its effects	(8)
Diagram	: An Electric circuit, Electric circuit symbols,Open and closed circuits,An electric bell	

### November -December

Lesson 10	: Transportation in plants and animals	(13)
Diagram	:Transportation mechanism in plants,Ascent of sap,Human urinary system ,A nephron	
Lesson 14	: Winds and storms	(8)
Diagram	: Land and sea breeze,	
Lesson 17	: Wise use of Water(Activity Based)	(2)

### Subject Enrichment Activities

1. To study the reaction between vinegar and baking soda.( to be done in practical file)
2. To obtain the crystals of copper sulphate from crude sample of copper sulphate( to be done in practical file)

3. To show that cutting of paper is a physical change while burning of paper is a chemical change.( to be done in project file)
4. To show that when electric current is passed through a nichrome wire heat is produced.( experiential learning)
5. To show the transportation of water through cells.( to be done in practical file)
6. To measure the pulse rate and heart beat.( experiential learning).
7. To show that high speed winds are accompanied by reduced air pressure.( to be done in project file)
8. To show that air expands on heating and contracts on cooling.( to be done in practical file).
9. To show that air exerts pressure( experiential learning).
10. Model making( art integration)- Prepare an electromagnet using iron nails,wire and battery.

### Annual Exam

<b>January</b>		<b>No. of periods</b>
Lesson 15	: Light	(12)
Diagram	:Reflection of light,Concave and convex mirror,Types of lenses,	
Lesson 11	: Reproduction in plants	(12)
Diagram	:Budding in yeast,Structure of a flower,Pollination, Fertilisation in a flowering plant,	

### February

Lesson 16	: Forest -Our Lifeline(Activity Based)(02)	
Repeated chapters		
Lesson 1	: Nutrition in plants	(PA-1)
Lesson 12	: Motion and Time	(Half yearly)
Lesson 6	: Acids,bases and salts	(Half yearly)
Lesson 13	: Electric current and its effects	(PA-2)

### Subject Enrichment Activities

1. To study the nature of images formed by curved reflecting surfaces( experiential learning)
2. To study image of the sun by a convex and a concave lens( to be done in practical file)
3. To demonstrate that sunlight is made up of seven colours.( demonstration- to be done in project file)
4. To grow a new rose plant from the stem of an existing plant by the method of cutting( to be done in practical file)
5. The observe the process of budding in yeast.demonstration -(to be done in project file)
6. To study natural methods of vegetative propagation as in Ginger rhizome( practical file).
7. Explore- To study the pollen grains of a flower.(pg-146)
8. To prove that light travels in a straight line( experiential learning)
9. To show rectilinear propagation of light.( to be done in project file)

## Social Science VII

BOOK :CAMBRIDGE SOCIAL SCIENCE

### PERIODIC 1

(April)

History	when where and how	5
Geography	our environment	6

Social and political life	Role of government in health	4
Activity based	growing up as boys and girls	4

(May)

History	New Kings and kingdoms	10
Human environment settlement transport and communication		10

### Subject enrichment activity

#### CH -Our environment (Written)

Few months ago a strategy was adopted In New Delhi to deal with air pollution known as odd-even formulas. Explore the internet and find the following aspects meaning, benefit, problems related to pollution and suggest how you as a citizen of India would help to fight with this problem. Make a report with pictures, pie charts and graphs .

#### CH-Growing up as boys and girls (Oral)

Imagine yourself as a film director. Your next film is based on gender stereotypes and your purpose is to gradually reduce and ultimately eliminate gender stereotyping from the mindset of people. What kind of story would you like to work upon, discuss the story for the same with your classmate and present it in class.

### HALF YEARLY

(July)

History	the Sultan of Delhi	8
Social and political life	On equality	4
	how the state government works	5
Activity-based	town traders and craftsmen	4

(August)

History	the creation of an Empire	10
geography	Major movement and major landforms	9

(September)

Geography	land Rocks and Minerals	7
Social and political life	Struggle for equality	4

### Subject enrichment activity

**Ch- Sultan of Delhi (Oral)** Design a timeline padlet for the chapter Delhi sultanate and present in the class padlet should have relevant information regarding rulers ,Sultan, time period etc

#### Ch-On equality (Written)

Create a questionnaire and conduct a survey on topic equality

The questionnaire need to have at least 10 questions

Some questions for Reference

- How many people are there in your family with voting rights ?
- Do Females work in your family ?

**Repeated chapters** : human environment settlement transport and communication

## Periodic 2

	(October)	
history	popular belief and religious debates	8
Geography	natural vegetation and wildlife	8
	(November)	
Geography	Composition and structure of atmosphere	10
Social and political life	Understanding media	7
activity-based	Nomads and settled communities	4
	( December)	
social and political life	Understanding advertising	8
Activity based	Water	4

### Subject Enrichment Activity

#### Ch-Understanding media (Written)

design a newspaper highlighting different columns finance entertainment International and school news .Name your newspaper ,use catchy and attractive highlights and pictures.

#### Ch-Popular belief and religious debate (oral)

Create one Mind Map with the help of Google showing different inferences from Bhakti and Sufi saints and present the same in class.

### Annual exam

	(December)	
History	new political formation in the 18th century	7
Activity-based	market around us	3
	(January)	
history	Architecture as power Forts Sacred places	6
Social and political life	women change the world	4
activity based	life in tropical and subtropical region	3
	(February)	
Geography	Life in temperate grassland	4
	Life in deserts	3

### Subject enrichment activity

#### Ch- architecture as power forts and sacred places

research on the architecture style of temples of North India and South India

#### Ch-Life in desert region

Sand dunes are the distinct feature of Sandy desert. Suppose during a journey through the desert you are stuck there and you encounter sand dunes constantly changing their locations. Weave a short story around this experience

#### Repeated chapters:1. Composition and structure of atmosphere

2. Our environment

3.Natural vegetation and wildlife