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பாடத்திட்டம் 2021 – 2022

வகுப்பு : 6

பாடம்: தமிழ்

இயல்	பாடப்பொருள்
முதல் பருவம்	
1. மொழி	செய்யுள் - இன்பத்தமிழ், தமிழ்க்கும்மி உரைநடை - வளர்தமிழ் இலக்கணம் - தமிழ் எழுத்துகளின் வகையும் தொகையும்
2. இயற்கை	செய்யுள் - காணி நிலம், திருக்குறள் துணைப்பாடம் - கிழவனும் கடலும் இலக்கணம் - முதலெழுத்தும் சார்பெழுத்தும்
3. அறிவியல், தொழில்நுட்பம்	துணைப்பாடம் - ஒளி பிறந்தது இலக்கணம் - மொழிமுதல், இறுதி எழுத்துகள்
இரண்டாம் பருவம்	
1. கல்வி	செய்யுள் - மூதுரை உரைநடை - கல்விக்கண் திறந்தவர் துணைப்பாடம் - நூலகம் நோக்கி .. இலக்கணம் - இன எழுத்துகள்
2. நாகரிகம், பண்பாடு	செய்யுள் - திருக்குறள் உரைநடை - தமிழர் பெருவிழா துணைப்பாடம் - மனம் கவரும் மாமல்லபுரம் இலக்கணம் - மயங்கொலிகள்
3. தொழில், வணிகம்	செய்யுள் - கடலோடு விளையாடு இலக்கணம் - சுட்டு எழுத்துகள், வினா எழுத்துகள்
மூன்றாம் பருவம்	
1. நாடு, சமூகம், அரசு, நிருவாகம்	செய்யுள் - பாரதம் அன்றைய நாற்றங்கால் உரைநடை - தமிழ்நாட்டில் காந்தி துணைப்பாடம் - வேலுநாச்சியார் இலக்கணம் - நால்வகைச் சொற்கள்
2. அறம், தத்துவம், சிந்தனை	செய்யுள் - பராபரக்கண்ணி, திருக்குறள் உரைநடை - பசிப்பிணி போக்கிய பாவை துணைப்பாடம் - பாதம் இலக்கணம் - பெயர்ச்சொல்
3. மனிதம், ஆளுமை	செய்யுள் - ஆசிய ஜோதி உரைநடை - மனிதநேயம்

SYLLABUS 2021 - 2022

CLASS - 6

SUBJECT : ENGLISH

Unit	Contents
Term-I	
1	Prose Sea Turtles Supplementary Owlie Grammar Subject and Predicate
2	Prose When the trees walked Poem Trees Grammar Sentence
3	Grammar Noun
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Term-II	
1	Poem Team Work Grammar Adjective
2	Prose Trip to Ooty Supplementary Gulliver's Travels Grammar Tense
Term-III	
1	Poem Indian Seasons Grammar Conjunction
2	Grammar Adverb
3	Play The Jungle Book Grammar Revision

SYLLABUS 2021 - 2022

CLASS - 6

SUBJECT : MATHEMATICS

UNIT	CONTENTS
Term-I	
1. Numbers	1.3 Place Value Chart 1.3.1 Indian Method 1.3.2 International Method 1.3.4 Place Value of Digits in Large Numbers 1.4 Comparison of Numbers 1.4.3 Arranging the numbers in ascending and descending order 1.6 Use of Large Numbers in Daily Life Situations 1.7 Order of Operations 1.8 Estimation of Numbers 1.9 Whole Numbers 1.10 Properties of Whole Numbers
2. Introduction to Algebra	2.1 Introduction 2.2 Patterns 2.2.1 Patterns in Number Operations 2.3 Understanding operations on Variables 2.4 Framing Algebraic Statements 2.4.1 Converting Algebraic statements to Verbal statements 2.4.2 Converting Verbal statements to Algebraic Statements 2.5 Solving Unknowns through Examples
3. Ratio and Proportion	3.2 Ratio 3.2.1 Properties of Ratio 3.2.3 Simplifying Ratios of same unit Example 3.1 & 3.2 3.2.4 Simplifying Ratios of different units & Try These (1 - 4) 3.2.5 Equivalent Ratios & Try These: 1 - 3 3.2.6 Comparisons of Ratios Situation 1 3.3 Proportions: Situation 2 3.3.1 Proportionality law 3.4 Unitary Method Example 3.8

4. Geometry	4.2. Line segment 4.2.2 Construction of line segment 4.2.3 Two lines 4.2.4 Rays 4.2.5 Two rays 4.3 Angles 4.3.1 Naming Angles 4.3.2 Measuring Angles 4.3.3 Special Angles 4.3.4 Angle measurement using Protractor 4.3.5 Using Protractor to draw Right Angle (90°) 4.3.6 Using Protractor to draw an Acute Angle 4.3.7 Using Protractor to draw an Obtuse Angle 4.3.8 Very special angles 4.4 Points and Lines
5. Statistics	5.2 Data 5.2.1 Collection of Data; 5.2.2 Types of Data; 5.2.3 Organizing Data 5.3 Representation of Data using Pictograph 5.4 Representation of Data using Bar Graph
6. Information Processing	6.3.3 More Figures in a Figure www.kalviamuthu.com
Term-II	
1. Numbers	1.2 Prime & Composite Numbers 1.2.1 Finding the Prime Numbers by Sieve Of Eratosthenes Method 1.3 Rules For Test Of Divisibility Of Numbers 2, 3, 5, 11 & Note 1.4 Prime Factorisation 1.Division Method 1.5 Common Factors 1.5.1. Highest Common Factor: Situation - 2, Note 1.6 Common Multiples 1.6.1 Least Common Multiple : Situation - 1 & 3 1.7 Application Problems On HCF and LCM 1.8 Relationship Between The Numbers And Their HCF and LCM
2. Measurements	2.3 Conversions in the Metric System 2.4 Fundamental Operations on Quantities with different units 2.5 Measures of Time

3. Bill, Profit and Loss	3.2 Bill 3.2.1 Verification of a Bill 3.2.2. Preparation Of a Bill Do You Know, Note 3.3 Profit And Loss Cost Price Marked Price, Discount, Selling Price
4. Geometry	4.3 Types and Properties of Triangles 4.4 Construction of Perpendicular Lines 4.5 Construction of Parallel Lines
5. Information Processing	5.2 Conversion of Tree Diagrams into Numerical Expressions Do you know
Term- III	
1. Fractions	1.3 Addition and Subtraction of Unlike Fractions 1.4 Improper and Mixed Fractions 1.5 Addition and Subtraction of Mixed Fractions 1.6 Multiplication of Fractions 1.7 Division of fraction
2. Integers	2.2 Introduction of integers and its representation on a number line 2.2.1 More situations on Integers 2.2.2. Opposite of a Number 2.3. Ordering of Integers 2.3.1 Predecessor and Successor of an Integer 2.3.2 Comparing Integers
3. Perimeter And Area	3.2 Perimeter 3.2.3 Perimeter of a Triangle 3.3.2 Area of a Square 3.4 Perimeter and Area of Combined Shapes 3.4.1 Impact on Removing / Adding a portion from / to a given Shape 3.5 Area of Irregular Shapes
4. Symmetry	4.2 Line of Symmetry 4.3 Reflection symmetry 4.4 Rotational Symmetry 4.5 Translational Symmetry

SYLLABUS 2021 - 2022

CLASS - 6

SUBJECT : SCIENCE

UNIT	CONTENTS
TERM - I	
1. Measurements	Introduction 1.1. Length - SI Units, Corrective measures for measurement 1.2. Mass- Beam Balance
2. Force and Motion	Introduction 2.1. Motion and Rest- Contact force, Non - contact forces 2.2. Types of motion Six types of motion Periodic and non-periodic motion Uniform and Non-Uniform motion
3. Matter Around Us	Introduction 3.1 Physical nature of matter 3.4 Compressibility of gases compared to liquids and solids 3.5 Pure Substances and mixtures 3.6 Separation mixtures -Filtering, Sedimentation
4. The world of plants	Introduction 4.1 Plant forms and functions 1. Root System 2. Shoot system
5. The world of Animals	Introduction 5.2 Unicellular and Multicellular Organisms 1. Unicellular Organisms - Amoeba 2. Multicellular Organisms 5.3 Adaptation in Animals- Fish and Bird

6. Health and Hygiene	<p>Introduction</p> <p>6.1 Components of Food</p> <p>6.2 Health and Nutrients - Physical Exercise</p>
TERM -II	
1. Heat	<p>Introduction</p> <p>1.1 Sources of heat</p> <p>1.2 Heat</p> <p>1.4 Temperature</p> <p>1.5 Heat and Temperature</p>
2. Electricity	<p>Introduction</p> <p>2.2 Cell</p> <p>Primary cells</p> <p>Secondary cell</p> <p>2.4 Conductors and Insulators</p>
3. Changes Around Us	<p>Introduction</p> <p>3.1 Classification of Changes</p> <p>3.1.1 Slow and fast Changes</p> <p>3.1.2 Reversible and Irreversible Changes</p>
4. Air	<p>4.1 Atmosphere</p> <p>4.3 Composition of Air</p> <p>4.6 Uses of Air</p>
5. The Cell	<p>5.2 The structural organization of the cell</p> <p>5.2.1 Size of the cell</p> <p>5.2.2 Shapes</p> <p>5.3.3 Plant cell and Animal cell</p>
6. Human organ systems	<p>6.1 Skeletal System</p> <p>6.7 Sense Organs- Eyes and Skin</p> <p>6.9 Excretory System- Kidney</p>
TERM -III	
1.Magnetism	<p>1.3 Magnetic and non- magnetic materials</p> <p>1.4 Magnetic poles</p> <p>1.7 Properties of magnets</p> <p>1.10 Uses of magnets</p>

2. Water	2.2 Where and how water is found on the earth? 2.4 Composition of water 2.7 Conservation of water Main reasons for water scarcity Methods of water conservation
3. Chemistry in everyday life	Introduction 3.2 Fertilizers 3.3 Cement 3.6 Plaster of Paris
4. Our Environment	Introduction 4.1 The Ecosystem 4.4 Biodegradable and Non-Biodegradable Waste 4.5 Pollution 4.6 Types of pollution How can we reduce air/water/land pollution
5. Plants in Daily Life	5.1 Plants as food 5.3 Medicinal plants 5.4 Fibre yielding plants

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SYLLABUS 2021 - 2022

CLASS - 6

SUBJECT : SOCIAL SCIENCE

UNIT	CONTENTS
TERM I	
History	
1. What is History?	Some major excavation sites (Map), Sources of History (Infographic)
2. Human Evolution	Stages of Human Evolution (Infographics) Hunting and food gathering, Stone Tools and Weapons, Invention of Wheels, From Nomadic to Settled Life: The World's Earliest Farmers.
3. Indus Civilization	Discovery of lost city - Harappa, Unique features of Harappan civilization, Do you know the hidden treasures of Indus Civilization, General facts about Indus.
4. Ancient cities of Tamilagam	Poompuhar, Madurai, Kanchi www.kalviamuthu.com
Geography	
1. The Universe and Solar System	The planets at a glance (Infographics), Motions of the earth, Spheres of the Earth.
2. Land and Oceans	Classification of landforms (Infographics), First order landform, Second order landform, Third order landform (Side headings alone in each topic) Oceans (Infographics)
Civics	
1. Understanding Diversity	Diversity in India, Social diversity, Religious Diversity, Linguistic Diversity, Cultural Diversity, Unity in diversity.
2. Achieving Equality	Inequality and discrimination, Remedial Measures for abolishing Inequality and Discrimination

TERM II	
History	
1. Vedic culture in North India and Megalithic culture in South India	Aryans and their Home in India, Vedic literature, Contemporary culture in South India and Tamilnadu, Megalithic monuments in Tamilnadu
2. From Chiefdoms to Empires	Importance of Sixth Century BC(BCE), Gana-sanghas and Kingdoms, Janapadas and Mahajanapadas, The Causes for the Rise of Magadha, Dynasties of Ancient Magadha, Mauryan Empire, Mauryan Empire-India's First Empire, Ashoka
Geography	
1. Resources	Types of Resources (Info-graphics), Resource planning / Management, Conservation Of Resources.
Civics	
1. National symbols	Natural National Symbols (Info-graphics), Do You Know, Other symbols of our country, National Flag, National Emblem, National Song. National holidays.
2. Constitution of India	Entire Unit
Economics	
1. Economics - An Introduction	Sandhai, Consumer goods, Barter System, Primary Activities, Secondary Activities, Tertiary Activities.
TERM III	
History	
1. Society and culture in Ancient Tamilagam : The Sangam Age	Entire Unit
2. The Post Mauryan India	Introduction, Sources, Rulers of Indo Greeks, Rulers of Indo-Parthians (Pahlavas), Kushanas - Rulers and Contribution,

3. The Age of Empires: Guptas and Vardhanas	Sources, Foundation Of Gupta Dynasty (Names of all the kings) All the box contents.
4. South Indian Kingdoms	The Pallavas
Geography	
1. Asia and Europe	Part A Asia Location, Physiographic Divisions (Headings alone), Drainage - Major rivers of Asia (Tabular Column), The Natural Regions (Flora & Fauna)
2. Globe	Directions, Globe, Latitudes, Important lines of latitude, Longitude, International Date line, Indian Standard Time.
3. Understanding Disaster	Disaster, Disaster - Flow Chart, Disaster Risk Reduction, Forecasting and Early Warning.
Civics	
1. Democracy	Do you know, Democracy-Flow chart, Representative Democracy - Flowchart, Aims of Democracy.
2. Local bodies - Rural and Urban	The elected representatives, Panchayat union, district panchayat, City municipal corporation, Special Features of Panchayat Raj, role of women in local self government, local body election
3. Road safety	Three types of traffic signs.

பாடத்திட்டம் 2021 – 2022

வகுப்பு : 7

பாடம்: தமிழ்

இயல்	பாடப்பொருள்
முதல் பருவம்	
1. மொழி	செய்யுள் - எங்கள் தமிழ் உரைநடை - பேச்சுமொழியும் எழுத்துமொழியும் இலக்கணம் - குற்றியலுகரம், குற்றியலிகரம்
2. இயற்கை	செய்யுள் - காடு, திருக்குறள் துணைப்பாடம் - இந்திய வனமகன் இலக்கணம் - நால்வகைக் குறுக்கங்கள்
3. நாடு, சமூகம்	செய்யுள் - புலி தங்கிய குகை, பாஞ்சை வளம் உரைநடை - தேசியம் காத்த செம்மல் பசும்பொன் உ.முத்துராமலிங்கத்தேவர் துணைப்பாடம் - கப்பலோட்டிய தமிழர் இலக்கணம் - வழக்கு
இரண்டாம் பருவம்	
1. அறிவியல், தொழில்நுட்பம்	செய்யுள் - கலங்கரை விளக்கம் உரைநடை - தமிழரின் கப்பற்கலை இலக்கணம் - இலக்கியவகைச் சொற்கள்
2. கல்வி	செய்யுள் - இன்பத்தமிழ்க் கல்வி உரைநடை - வாழ்விக்கும் கல்வி இலக்கணம் - ஓரெழுத்து ஒருமொழி, பகுபதம், பகாப்பதம்
3. கலை, அழகியல்	செய்யுள் - திருக்குறள் துணைப்பாடம் - தமிழ் ஒளிர் இடங்கள் இலக்கணம் - தொழிற்பெயர்
மூன்றாம் பருவம்	
1. நாகரிகம், தொழில், வணிகம்	செய்யுள் - விருந்தோம்பல் துணைப்பாடம் - திருநெல்வேலிச் சீமையும் கவிகளும் இலக்கணம் - அணி இலக்கணம்
2. அறம், தத்துவம், சிந்தனை	செய்யுள் - புதுமை விளக்கு, திருக்குறள் இலக்கணம் - அணி இலக்கணம்
3. மனிதம், ஆளுமை	செய்யுள் - மலைப்பொழிவு உரைநடை - கண்ணியமிகு தலைவர் இலக்கணம் - ஆகுபெயர்

SYLLABUS 2021 - 2022

CLASS - 7

SUBJECT : ENGLISH

Unit	Contents
Term-I	
1	Prose Edigah Poem The Computer Swallowed Grandma Grammar Determiner
2	Grammar Present and Perfect Tense
3	Prose A Prayer to the Teacher Supplementary Taking the bully by the horns Grammar Preposition viamuthu.com
Term-II	
1	Prose Adventures of Don Quixote Poem The Poem of adventure Grammar Adjectives
2	Grammar Active Voice and Passive Voice
Term-III	
1	Prose Journey by Train Poem Sea fever Supplementary Sinbad- My first Voyage Grammar Reported Speech

2	Grammar Direct and Reported Speech
3	Play Jane Eyre Grammar Revision

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SYLLABUS 2021 - 2022

CLASS - 7

SUBJECT : MATHEMATICS

UNIT	CONTENTS
Term-I	
1. Number System	1.2. Addition of Integers 1.2.1. Properties of Addition 1.3. Subtraction of Integers 1.3.1. Properties of Subtraction 1.4. Multiplication of Integers 1.4.1. Properties of Multiplication 1.4.2. Distributive Property on Multiplication over Addition 1.5. Division of Integers 1.5.1. Properties of Division 1.6. Problem on integers using all Fundamental Operations
2. Measurement	2.1. Introduction 2.2. Parallelogram 2.2.1. Area and Perimeter of a Parallelogram 2.3. Rhombus 2.3.1. Area of the Rhombus if Base and Height are given 2.3.2. Area of the Rhombus if Diagonals are given 2.4. Trapezium, Isosceles Trapezium 2.4.1. Area of the trapezium
3. Algebra	3.2. Terms and Coefficient 3.3. Like and Unlike Terms 3.4. Value of an Algebraic Expression 3.5. Addition and Subtraction of an Algebraic Expression 3.6. Simple Linear Equation 3.6.1. Construction of Linear Equation 3.6.2. Solving an Equation
4. Direct and Inverse Proportion	4.2. Direct Proportion 4.3. Inverse Proportion Situation, Think Try this

5. Geometry	<ul style="list-style-type: none"> 5.1 Introduction 5.2 Pair of Angles formed by Intersecting Lines 5.3 Transversal <ul style="list-style-type: none"> 5.3.1 Angle formed by a Transversal Angles formed by a Transversal with Parallel lines 5.4 Construction <ul style="list-style-type: none"> 5.4.1 Construction of Perpendicular Bisector of a Line Segment 5.4.2 Construction of Angle Bisector of an Angle 5.4.3 Construction of Special Angles without using Protractor
6. Information Processing	<ul style="list-style-type: none"> 6.2. Tetromino <ul style="list-style-type: none"> 6.2.1. Filling Rectangular Tiles Using Tetrominoes 6.3. Route map <ul style="list-style-type: none"> 6.3.1. To Find the Shortest Route
Term-II	
1. Number System	<ul style="list-style-type: none"> 1.1 Introduction 1.2 Representing a Decimal Number 1.3 Fractions and Decimals 1.4 Comparison of Decimals
2. Measurements	<ul style="list-style-type: none"> 2.1. Introduction 2.2 Circle 2.3. Circumference of a Circle 2.4. Area of Circle 2.5. Area of Pathways
3. Algebra	<ul style="list-style-type: none"> 3.2 Exponents and Powers 3.3 The law of Exponents 3.5 Degrees of Expression
4. Geometry	<ul style="list-style-type: none"> 4.2 Application of Angle sum Property of Triangle 4.3 Exterior angles 4.4 Congruency of Triangles
5. Information Processing	<ul style="list-style-type: none"> 5.3 Pascal's Triangle

Term- III	
1. Number System	1.2 Rounding of Decimals- To round a decimal 1.3 Operations on Decimal numbers 1.3.1 Addition and Subtraction of Decimal numbers (iii) Place value grid model 1.3.2 Multiplication on Decimal numbers (ii) Multiplication of Decimal numbers by 10, 100, 1000 1.3.3 Division of Decimal numbers (ii) Division by 10, 100, 1000, Try these (iii) Division of a Decimal number by a whole number (iv) Division of a Decimal number by another Decimal number
2. Percentage and simple Interest	2.1.1 Converting Fraction to Percentage 2.1.2 Converting Percentage as Fraction 2.1.3 Converting Decimals to Percentage 2.1.4 Converting Percentage to Decimals 2.2 Percentage in Real life Try These, Profit or Loss as a percentage 2.3 Simple Interest
3. Algebra	3.1 Introduction to Identities 3.3 Geometrical proof of Identities 3.3.1 Identity-1: $(x + a)(x + b) = x^2 + x(a+b) + ab$ 3.3.2 Identity-2: $(a+b)^2 = a^2 + 2ab + b^2$ 3.3.3 Identity-3: $(a-b)^2 = a^2 - 2ab + b^2$ 3.3.4 Identity-4: $(a + b)(a - b) = a^2 - b^2$ 3.4 Factorisation using Identities
4. Geometry	4.2 Symmetry through Transformations 4.2.1 Translation 4.2.2. Reflection 4.2.3. Rotation 4.3 Construction of Circles and Concentric Circles 4.3.1 Circles 4.3.2 Construction of Circles 4.3.3 The Concentric Circles 4.3.4 Construction of Concentric Circles

5. Statistics	5.2 Collection of Data 5.3 Organisation of Data 5.4 Representative values 5.5 Arithmetic mean 5.6 Mode 5.6.1 Mode of large Data 5.7 Median
6. Information Processing	6.1 Scheduling; Situation 1 6.2. Flow Chart 6.2.1 Types of flow chart; Sequential flow chart Situation-1 Conditional flow chart- Situation-2, Situation-3

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CLASS - 7

SUBJECT : SCIENCE

UNIT	CONTENTS
TERM - I	
1. Measurement	1.1.1 Fundamental quantities 1.1.2 Derived quantities 1.2. Area 1.3 Volume 1.4 Density 1.5 Measuring larger distances 1.5.1 Astronomical Unit 1.5.2 Light year
2. Force and Motion	2.2.1 Speed 2.2.2 Velocity 2.3 Acceleration and its types 2.7 Stability 2.7.1 Condition for stability
3. Matter Around Us	www.kalviamuthu.com 3.1 Atom 3.2 Molecule 3.3. Elements 3.3.1 Classification of Elements Difference between metal and non-metals 3.4 Compounds 3.4.1 Properties of compounds
4. Atomic Structure	4.1 Atomic theories 4.1.1 Dalton's atomic theory 4.2 The Sub-atomic particles 4.3.1 Atomic Number 4.3.2 Mass Number
5. Reproduction and Modification in plants	5.1 Reproduction 5.2 Sexual Reproduction 5.2.1 Parts of flower 5.2.2 Types of flowers 5.3 Asexual Reproduction 5.3.1 Vegetative Propagation 5.3.2 Budding

6. Health and Hygiene	6.1 Hygiene 6.1.1 Personal hygiene 6.1.2 Community Hygiene 6.2.1 Dental Care 6.2.2 Eye care 6.3. Diseases 6.3.1 Communicable Diseases - Tuberculosis, Chickenpox 6.3.2 Non Communicable Diseases - Wearing out of body parts, Malnutrition 6.5 Safety and First Aid
TERM -II	
1. Heat and Temperature	1.2 Temperature Units 1.4 Temperature 1.4 Types of Temperature 1.4 1. Clinical Temperature
2. Electricity	2.1 Electric Current- Unit of electric current 2.1.1 Conventional Current and Electron Flow 2.2 Potential Difference 2.2.1 Units of potential difference 2.3.1 Types of cell 2.3.2 Difference between primary and secondary cell 2.6.1 Conductors 2.6.2 Insulators
3. Changes Around Us	Introduction 3.2 Physical Changes 3.2.1 Characteristics of a physical changes 3.3 Changes of state 3.1.1 Melting 3.1.2 Vapourization 3.3.5 Sublimation 3.4 Chemical Changes 3.4.1 Rusting of iron

4. Cell Biology	4.1 Cell as a fundamental unit of life 4.2 Plant and Animal cell comparison 4.3 Cell structure, cell membrane Cell wall- Supporter and protector Chloroplast - Food Producers Nucleus - Functions of Nucleus
5. Basis of Classification	Introduction List out things found in your class room 5.1. Basics of Classification - Need for Classification Classification of Animals - only flow chart 5.2 Classification of plants - only flow chart, Algae
TERM -III	
1. Light	Sources of light Natural sources of light Artificial sources of light Properties of light Pinhole Camera Reflection Laws of reflection Transparent material Translucent Material Opaque Material Shadows Parts of shadow Properties of shadow
2. Universe and Space	Introduction Galaxies Types of galaxies Spiral galaxy Elliptical galaxy Irregular galaxy Barred spiral Satellites Natural Satellites Artificial satellites

3. Polymer Chemistry	3.1 Introduction 3.2 What are Polymers? 3.2.2 Natural Polymers 3.2.3 Synthetic Polymers 3.3 Fibres 3.3.1 Natural and Synthetic Fibres 3.4 Plastics 3.4.4 Various methods of disposing plastics
4. Chemistry in Daily Life	Introduction 4.1 Oral Rehydration Solution (ORS) 4.2 Antacid Combustion Types of combustion Structure of a Candle flame Characteristics of good fuel
5. Animals in Daily Life	5.1 Animal products used as food Milk, Eggs, Meat, Poultry Farming 5.2 Animal products used as clothing Animal Fibres - Wool, Process of wool, Characteristics of wool, Uses of wool

SYLLABUS 2021 - 2022

CLASS - 7

SUBJECT : SOCIAL SCIENCE

UNIT	CONTENTS
TERM I	
History	
1. Sources of Medieval India	Inscription, Religious Literature, Secular Literature, Travellers and Travelogue
2. Emergence of New Kingdoms in North India	Origin of Rajputs, Contribution of Rajputs to Art and Architecture, Contribution of Palas to Culture, Battle of Tarrain
3. Emergence of New Kingdoms in South India: Later Cholas and Pandyas	The Later Cholas, Decline of the Chola Empire, Uthiramerur Inscriptions, Irrigation, Temples, Later Pandyas, Sadaiyavarman Sundarapandian, Religion, Temples, Trade
4. The Delhi Sultanate	Qutb-ud-din-Aibak, Ala-ud-din, Khalji, Tughluq Dynasty, Muhammed-bin-Tughluq, Lodi Dynasty
www.kalviamuthu.com Geography	
1. Interior of the Earth	Earth Movements, Earthquake, Causes of Earthquake, Effects of Earthquakes, Volcanoes, Causes of Volcanic Activities, Types of Volcano
2. Landforms	Endogenic Process, The Exogenic Process, River, V Shaped Valley, Meanders, Glaciers, Cirque, U Shaped Valley, Wind, Mushroom Rock, Inselberg, Barchans, Sea Waves, Sea Cliff, Sea Cave, Sea Arch and Sea Stack, Sand bar, Lagoon
3. Population and Settlement	Races, Causcasoid, Negroid, Mongoloid, Australoid, Language of India, Classification of Urban Settlement, Town, City, Mega City, Megalopolis, Conubation, Satellite town, Smart City
Civics	
1. Equality	What is Equality, Importance of Equality, Human Dignity, Equality in Indian Constitution
2. Political Parties	What are Political Parties, Types of Party System, Party System in India, Electoral Symbols and its Importance

Economics	
1. Production	Meaning of Production, Types of Production, Characteristics of Land, Entrepreneur Organisation
TERM II	
History	
1. Vijayanagar and Bahmani Kingdoms	Krishnadevaraya, Battle of Talikota and the Decline of Vijayanagar, Vijayanagar Administration, Bahmani Kingdom, Ala-ud-din Hasan Bahman Shah, Decline of Bahmani Kingdom, Contribution of Bahmani Sultans
2. The Mughal Empire	Babur, Shershah, Akbar, Conquest of Women Rulers, Battle of Haldighati, Aurangazeb, Relationship with Rajput and Marathas, Mansabdari System
Geography	
1. Resources	Biotic, Abiotic, Resources, Renewable Resources, Non Renewable Resources www.kalviamuthu.com
2. Tourism	Basic Elements of Tourism Attraction, Hill Station in India, Water falls in India
Civics	
1. State Government	Legislative Assembly, Governor, Chief Minister, Council of Ministers
2. Media and Democracy	What is Media, Ethics and Responsibility, Role of Democracy
TERM III	
History	
1. New Religious Ideas and Movements	Devotional Movement in Tamizhagam(Alwars & Nayanmars), Adi Sankara, Ramanuja, Sufism in India, Kabir, Guru Nanak, Impact of the Religious Bhakthi Movement
2. Art and Architecture of TamilNadu	Pallava Epoch, Sculptures, Early Chola Epoch, Thanjavur Big Temple, Later Pandyas, Vijayanagara Epoch

Geography	
2. Mapping Skills	Types of Maps, Elements of Map
3. Natural Hazards- Understanding of Disaster	Management in Practice Disaster, Natural Disaster, Tsunami, Cyclone, Flood
Civics	
1. Women Empowerment	Women's Education, The Unmatched Importance of Female Education, Savitribai Phule
2. Market and Consumer Protection	Classification of Market, Who is Consumer?, Who is not Consumer?
3. Road Safety	10 Golden Rules for Road Safety
Economics	
1. Tax and its Importance	Taxation, Tax, Types of Tax

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பாடத்திட்டம் 2021 – 2022

வகுப்பு : 8

பாடம்: தமிழ்

இயல்	பாடப்பொருள்
1. மொழி	செய்யுள் - தமிழ்மொழி வாழ்த்து உரைநடை - தமிழ் வரிவடிவ வளர்ச்சி துணைப்பாடம் - சொற்பூங்கா இலக்கணம் - எழுத்துகளின் பிறப்பு
2. இயற்கை	செய்யுள் - ஓடை, திருக்குறள் இலக்கணம் - வினைமுற்று
3. அறிவியல், தொழில்நுட்பம்	செய்யுள் - வருமுன் காப்போம் உரைநடை - தமிழர் மருத்துவம் இலக்கணம் - எச்சம்
4. கல்வி	செய்யுள் - கல்வி அழகே அழகு உரைநடை - பல்துறைக்கல்வி இலக்கணம் - வேற்றுமை
5. கலை, அழகியல்	செய்யுள் - திருக்கேதாரம், திருக்குறள் உரைநடை - நாட்டுப்புறக் கைவினைக்கலைகள் துணைப்பாடம் - தமிழர் இசைக்கருவிகள் இலக்கணம் - தொகைநிலை, தொகாநிலைத் தொடர்கள்
6. நாகரிகம், தொழில், வணிகம்	உரைநடை - கொங்குநாட்டு வணிகம் இலக்கணம் - புணர்ச்சி
7. நாடு, சமூகம்	செய்யுள் - விடுதலைத் திருநாள் உரைநடை - பாரதரத்னா எம்.ஜி.இராமச்சந்திரன் துணைப்பாடம் - அறிவுசால் ஔவையார் இலக்கணம் - வல்லினம் மிகும் இடங்களும் மிகா இடங்களும்
8. அறம், தத்துவம், சிந்தனை	செய்யுள் - ஒன்றே குலம், மெய்ஞ்ஞான ஒளி, திருக்குறள் உரைநடை - அயோத்திதாசர் சிந்தனைகள் துணைப்பாடம் - மனித யந்திரம் இலக்கணம் - யாப்பு இலக்கணம்
9. மனிதம், ஆளுமை	உரைநடை - சட்டமேதை அம்பேத்கர் இலக்கணம் - அணி இலக்கணம்

SYLLABUS 2021 - 2022

CLASS - 8

SUBJECT : ENGLISH

Unit	Contents
1	Poem Special Hero Supplementary The Woman on Platform 8 Grammar Parts of Speech
2	Prose My Hobby turns into a successful career Supplementary Jim Corbett, A Hunter Turned Naturalist Grammar Adjective
3	Grammar Prepositions Modal Verbs www.kalviamuthu.com
4	Prose My Reminiscence Poem A Thing of Beauty Grammar Conjunctions/Connectors Sentence Pattern
5	Grammar Tenses Conditional Clauses with If
6	Grammar Reported Speech
7	Prose Cyber Safety Supplementary The Mystery of the Cyber Friend Grammar Question Tag Simple, Complex and Compound

8	Play Jack and the Beanstalk Grammar Forms of Verb
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SYLLABUS 2021 - 2022

CLASS - 8

SUBJECT : MATHEMATICS

UNIT	CONTENTS
1. Numbers	<p>1.2 Rational Numbers</p> <p>1.2.1 Rational Numbers on a Number Line</p> <p>1.2.2 Decimal Representation of a Rational Number</p> <p>1.2.3 Positive and Negative Rational Numbers</p> <p>1.2.4 Equivalent Rational Numbers</p> <p>1.2.5 Rational Numbers in Standard Form Example 1.2</p> <p>1.2.6 Comparison of Rational Numbers Type 1 : Comparing Two Rational Numbers with Opposite Signs Type 2 : Comparing Two Rational Numbers Represented by Two Fractions with same Denominators Type 3 : Comparing Two Rational Numbers Represented by Two Fractions with Different Denominators Type 4 : Comparing Two Rational Numbers that are not in Standard Form</p> <p>1.2.7 Rational Numbers between any Two given Rational Numbers Method of Averages: Method of Equivalent Rational Numbers</p> <p>1.3 Basic Arithmetic Operations on Rational Numbers</p> <p>1.3.1 Addition Type 1 : Adding numbers that have same Denominators Type 2 : Adding Numbers that have different Denominators</p> <p>1.3.2 Additive Inverse</p> <p>1.3.3 Subtraction</p> <p>1.3.4 Multiplication</p>

	<ul style="list-style-type: none"> 1.3.5 Multiplicative Inverse 1.3.6 Division 1.4 Word Problems on the basic Operations 1.5 Properties of Rational Numbers 1.5.1 Closure Property / law for the Collection of Rational Numbers <ul style="list-style-type: none"> (i) Closure property for Addition (ii) Closure property for Multiplication 1.5.2 Commutative property/law for the collection of rational numbers 1.6 Introduction to Square Numbers 1.6.1 Some more Special Properties of Square Numbers 1.7.1 Square Root Through Prime Factorisation 1.7.2 Finding the Square Root of a Number by Long Division Method 1.7.5 Square Root of Product and Quotient of Numbers 1.8.2 Cube Root 1.8.3 Cube Root of a given Number by Prime Factorization 1.9.4 Laws of Exponents <ul style="list-style-type: none"> Product law Quotient law Power law 1.9.5 Standard Form and Scientific Notation
2. Measurements	<ul style="list-style-type: none"> 2.2 Parts of a circle 2.2.2 Length of the Arc and Area of the Sector 2.2.3 Perimeter of a Sector 2.3 Combined Shapes. <ul style="list-style-type: none"> 2.3.1. Perimeter of Combined Shapes 2.3.2 Area of combined shapes 2.4.2 Nets for building Three Dimensional (3-D) shapes 2.4.3 Drawing 3-D Shape using Isometric dot Sheets and Grid Sheets

3. Algebra	3.2 Multiplication of Algebraic Expressions 3.2.1 Multiplication of two or more Monomials 3.2.2 Multiplication of a Polynomial by a Monomial 3.2.3 Multiplication of Two Polynomials 3.5 Identities 3.6. Cubic Identities 3.7 Factorization Type 1-5 3.8 Linear Equations in One Variable,3.8.1, 3.8.2,3.8.3,3.8.4 (i) 3.8.5 Word problems that involve Linear Equations 3.9 Graph 3.9.7 To Obtain a Straight Line 3.9.8 Line Parallel to Coordinate Axes 3.9.9 Scale in a Graph 3.10 Linear Graph, 3.10.1 - 3.10.2
4. Life Mathematics	4.3 Profit, Loss, Discount, Overhead Expenses and GST 4.5 Compound Variation 4.6 Time and work
5. Geometry	www.kalviamuthu.com 5.2.1 Congruent Triangles 5.2.2 Similar Triangles 5.3 The Pythagorean Theorem 5.4 Converse of Pythagoras Theorem 5.5 Point of Concurrency 5.6 Medians of a Triangle 5.6.1 Centroid of a Triangle 5.8.1 Circumcentre 5.9.1 In centre 5.10 Constructing a Quadrilateral 5.10.1 Constructing a Quadrilateral when 4 sides and a Diagonal are given 5.10.2 Constructing a Quadrilateral when 3 sides and two diagonal are given 5.10.3 Constructing a Quadrilateral when 4 sides and a angles are given

	<p>5.11.2 Constructing a Trapezium when its Three Sides and one angle are Given</p> <p>5.13 Construction of a Parallelogram</p> <p>5.13.1 Constructing a Parallelogram When its two Adjacent Sides and one Angle are Given</p> <p>5.13.2 Constructing a Parallelogram when its two Adjacent Sides and one Diagonal are Given</p> <p>5.14.1 Construction of a Rhombus when One Side and One Diagonal are Given</p> <p>5.14.3 Construction of a Rhombus when Two Diagonals are Given</p> <p>5.15 Construction of a Rectangle</p> <p>5.15.1 Construction of a Rectangle when its Length and Breadth are Given</p> <p>5.15.2 Construction of a Rectangle when side length and diagonal are given</p> <p>5.16 Construction of a Square</p> <p>5.16.1 Construction of a Square when its Side is Given</p> <p>5.16.2 Construction of a Square when its Diagonal is Given</p>
6. Statistics	<p>www.kalviamuthu.com</p> <p>6.2 Frequency Distribution Table</p> <p>6.2.2 Construction of Frequency Distribution table for Grouped Data</p> <p>6.2.2 (i) Construction of Grouped Frequency Distribution table- Continuous Table</p> <p>6.3.2 Method of Constructing a Pie Chart</p> <p>6.4 Graphical Representation of the Frequency Distribution for Grouped Data</p> <p>6.4.1 Histogram</p> <p>6.4.2 Frequency Polygon</p>
7. Information Processing	<p>7.6 Highest Common Factor</p> <p>7.8 Shopping Comparison</p>

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CLASS - 8

SUBJECT : SCIENCE

UNIT	CONTENTS
1.Measurement	1.1 Unit systems 1.2 International system of units 1.2.1 Temperature 1.2.2 Electric current (I) 1.3 Clocks 1.3.1 Types of clock based on display 1. Analog clocks 2. Digital clocks 1.3.2 Types of clock based on working mechanism
2.Force and pressure	2.1 Force 2.1.1 Effect of force 2.2 Pressure 2.3 Pressure exerted by Air 2.4 Force and Pressure in Liquids 2.4.1 Pressure exerted by liquids 2.4.2 Pascals law
3.Light	3.1 Mirrors 3.1.1 Spherical mirrors 3.1.2 Parabolic mirrors 3.4 Applications of curved Mirrors Concave Mirror Convex Mirror 3.6 Types of Reflection 3.6.1 Regular reflection 3.6.2 Irregular reflection
4. Heat	4.1 Effects of Heat 4.1.1 Expansion 4.1.2 Rise in temperature 4.1.3 Change of state 4.2 Transfer of Heat 4.2.2 Convection 4.2.3 Radiation 4.3. Calorimetry 4.3.1 Temperature 4.3.2 Unit of heat

5. Electricity	<ul style="list-style-type: none"> 5.1 Atom 5.2 Charges 5.3 Transfer of charges <ul style="list-style-type: none"> 5.3.1 Transfer by friction 5.3.2 Transfer by conduction, Transfer by Induction 5.7.1 Series circuit 5.7.2 Parallel circuit
6. Sound	<ul style="list-style-type: none"> 6.1 Production of sound 6.2 Propagation of sound 6.3 Sound waves <ul style="list-style-type: none"> 6.3.1 Characteristic of wave motion 6.3.2 Types of mechanical wave 6.5 Music Instruments
7. Magnetism	<ul style="list-style-type: none"> 7.1 Classification of Magnets 7.2 Magnetic properties 7.3 Magnetic field 7.5 Artificial Magnets 7.7 Uses of Magnets
8. Universe and Space Science	<ul style="list-style-type: none"> 8.1 www.rocketsouthu.com Rockets 8.1.1 Parts of Rockets 8.1.2 Types of Propellant 8.2. India's Space Programme <ul style="list-style-type: none"> 8.2.1 Chandrayan-1
9. Matter Around us	<ul style="list-style-type: none"> 9.1 Elements <ul style="list-style-type: none"> 9.1.1 Symbol of Elements 9.2 Metals and Non metals <ul style="list-style-type: none"> 9.2.1 Metals 9.2.2 Non metals
10. Changes Around us	<ul style="list-style-type: none"> Introduction 10.2 Effect of chemical change <ul style="list-style-type: none"> 10.2.1 Biological Effect 10.2.2 Environmental Effect
11. Air	<ul style="list-style-type: none"> 11.1. Oxygen 11.2 Nitrogen 11.3 Carbon dioxide 11.4 Green House Effect and Global warming

	11.4.1 Effects of Global warming 11.4.2 Preventive measures
12. Atomic structure	12.1 Dalton's Atomic theory 12.2 Fundamental Particles 12.3 Thomson's Atom model 12.8 Chemical Equation
13. Water	13.1 Composition 13.3 Water – A Universal Solvent 13.4.2 Purification of water 13.4.3 Hardness of water 13.5 Water pollution
14. Acids and Bases	14.1 Acids 14.1.2 Uses of Acids 14.2 Bases 14.2.2 Uses of bases 14.4.2 Synthetic Indicator
15. Chemistry in Everyday life	15.1 Hydrocarbons 15.1.2 Properties of Hydrocarbons 15.4 Coal 15.4.2 Types of coal 15.4.3 Uses of coal 15.8 Solar Energy
16. Micro organism	16.1 Virus 16.1.1 Structure of virus 16.1.2 Characteristics of virus 16.2 Bacteria 16.2.1 Cell structure of Bacteria 16.3 Fungi 16.3.1 Cell structure of yeast
17. Plant kingdom	17.3 Bryophytes 17.3.1 Classification of Bryophytes 17.4 Pteridophytes 17.4.1 Classification of Pteridophytes 17.5 Gymnosperms 17.5.1 Classification of Gymnosperms

18. Organization of life	18.2 Cells 18.2.1 Shape of cells 18.3 Tissues 18.3.1 Types of Tissues 18.5 Organ system 18.5.1 The Respiratory System
19. Movement in Animals	19.1 Movement and locomotion 19.2 Movement in different Animals Earthworm, Cockroach, Birds, Snake, Fish
20. Reaching the Age of Adolescence	20.1 Adolescence and puberty Puberty Body changes at puberty 20.2 Secondary sex Characteristics 20.2.1 Secondary sex Characteristics of Boys 20.2.2 Secondary sex Characteristics of Girls 20.7 Nutritional needs of Adolescents 20.8 Personal hygiene for Adolescence
21. Crop production and Management	21.1 Agricultural practices 21.2 Basic practices of crop production 21.2.1 Soil preparation 21.2.2 Sowing of seeds 21.2.3 Adding manure and fertilizers 21.2.6 Harvesting of crops
22. Conservation of plants and Animals	22.1 Deforestation 22.1.2 Effects of Deforestation 22.2 Afforestation 22.2.1 Importance of Afforestation 22.9 Animal welfare organizations 22.9.1 Blue Cross

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CLASS - 8

SUBJECT : SOCIAL SCIENCE

UNIT	CONTENTS
HISTORY	
1. Advent of The Europeans	Sources of Modern India, Kinds of sources, Advent of the Europeans
2. From Trade to Territory	Establishment of political power by the English East India Company, Carnatic Wars, Mysore and its Resistance to British Expansion, Anglo Maratha War, the British Administrative Organisation in India, Doctrine of lapse
3. Rural life and Society	The Land Revenue Policy under the British, Ryotwari System, Mahalwari System
4. People's revolt	Entire Unit
5. Educational Development in India	Education in Ancient India, Education in medieval India, Modern System of Education, Educational Development of Independent India, National Policy of Education, Sarva Shiksha Abhiyan (SSA) and Rashtriya Madhyamik Shiksha Abhiyan (RMSA), Educational Development in Tamilnadu
6. Development of Industries in India	Traditional Craft of India, Decline of Indian Industries, Industrial Growth in India, Phases of Industrial Development in India, Modernization, Self-Reliance
7. Urban Changes During the British Period	Ancient Towns, Medieval Towns, Modern Towns, Unique Features of Urbanization Under the British Colonial, Urban Development, Creation of Municipalities and Corporation, Origin and Growth of Madras, Administration of the Presidency, Towns, Madras, Bombay, Kolkata
8. Status of Women in India Through the Ages	The Position of Women in Ancient Period, Medieval Period, British Period, Women in Freedom Movement, Women in Independent India

GEOGRAPHY	
1. Rocks and soils	Rocks, Classification of rocks, uses of Rocks, Rock Cycle, Soil and its Formation, Soil Composition, Soil Profile, Classification of Soil, Layers of Soil, Soil Conservation, uses of Soils
2. Weather and Climate	Rainfall, Air pressure, Wind, Humidity
3. Hydrologic cycle	Water on the Earth, Hydrologic Cycle, Components of Hydrologic Cycle, Precipitation, Infiltration, Runoff, Types of Runoff
4. Migration and Urbanization	Migration, Factors of Migration, Types of Migration, Consequences of Migration, Urbanization, Causes of Urbanization, Origin and Growth of World Urbanization, Consequence of Urbanization
5. Hazards	Hazards, Types of Hazards, Major Hazards in India, Needs for Prevention Measures
8. Map Reading	What is Map, Map Reading, Difference Between a Map and a Globe, Components of Map, Types of Maps <small>www.kalviamuthu.com</small>
CIVICS	
1. How the State Government Works	Entire Unit
2. Citizen and Citizenship	Entire Unit
3. Understanding Secularism	What does the Secularism Mean?, Objectives of Secularism, Characteristic Features of a Secular State, Importance of Secularism, the Constitution of India has the following distinguishing Features, Mosaic of Constitutional Provisions, Why do we Need Secular Education?
4. Human Rights and UNO	What are Human Rights, Where do Human Rights Come From? Human Rights are Based on the Values of, Basic Characteristics of Human Rights, Kinds of Human Rights a. Civil Rights, b. Political Rights, Human Rights Commission, Human Rights Organisations, Child Rights, Women Rights

5. Road Safety Rules and Regulation	Importance of Road Safety, Reasons for the Road Accident, Signs, Important Signs, Traffic Rules in India, Steps Taken by the Government to Prevent Road Accidents, Road Safety Week, IFRC International Federation of Red Cross and Red Crescent Societies
7. The Judiciary	Evolution of Indian Judiciary, Judiciary and Constitution, Role of the Judiciary, Supreme Court of India, Independent and Impartial Function of Judiciary, The Litigation Process
ECONOMICS	
1. Money Savings and Investments	Evolution of Money, History of Metallic Money, Recent Forms of Money, Value of Money, Nature of Money, Functions of Money, Savings In Banks and Investment, Black Money
2. Public and Private Sectors	Public and Private Sector, Definition of Public Sector, History of Public Sector Objectives of Public Sector, Classification of Industries, Indicator of Socio Economic Development, Difference Between Public Sector and Private Sector, Definition of Private Sector, Major Private Companies, Functions of Private Sector