

Class-08 (English)

(Total Videos # 215)

Chapter # 01

Tolerance of the Rasool (S.A.W) (08 Videos)

1.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 1

1.2 Reading for Comprehension

1. Comprehension-Tolerance of the Rasool (S.A.W)-Part 1
2. Comprehension-Tolerance of the Rasool (S.A.W)-Part 2

1.3 Grammar

1. Exercise-Nouns-Mixed
2. Prefix and Suffix
3. Changing Statements into Negatives and Interrogatives

1.4 Writing Skills

1. Self-Created Cloze

1.5 Oral Communication Skills

1. 14th August-Conversation (talk)

Chapter # 02

A Dialogue (21 Videos)

2.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 2
2. Use of Thesaurus (synonyms)

2.2 Reading for Comprehension

1. Comprehension-A Dialogue -Part 1
2. Comprehension-A Dialogue -Part 2

2.3 Grammar

3. Present Perfect Tense (Uses&Formation)
4. Present Perfect Tense(Table) (explanation with examples)
5. Collective Nouns (explanation with examples)

6. Exercise-Collective Nouns
7. Kinds of Adverbs (explanation with examples)
8. More on Kinds of Adverbs
9. Intro Direct/Indirect Speech
10. Intro Direct/Indirect Speech: Activity
11. Orders and Requests: Direct/Indirect Speech

2.4 Writing Skills

1. Commas with Phrases, Dates and Addresses (Rule 10 to 13)
2. Punctuating Salutations and Valedictions
3. Punctuating Dates
4. Punctuating Addresses
5. Writing an Invitation
6. Informal Letter Sample (reading and discussion of sample)

2.5 Oral Communication Skills

1. Professions-Conversation (questions/answers)

Chapter # 03

On the Ocean (Poem) (08 Videos)

3.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 3

3.2 Reading for Comprehension

1. Comprehension of a Poem Part 3

3.3 Grammar

1. Prefix and Suffix
2. Use of Simile: Activity

3.4 Writing Skills

1. Exercise-Summary Skills-1
2. Paragraph Writing Intro-Outline (explanation with examples)
3. Paragraph Writing Sample(writing of a paragraph)

3.5 Oral Communication Skills

1. Shopping-Conversation in the Market (picture/reading/explanation)

Chapter # 04

An Exhibition (23 Videos)

4.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 4
2. Use of Thesaurus (synonyms)

4.2 Reading for Comprehension

1. Comprehension-An Exhibition-Part 1
2. Comprehension-An Exhibition-Part 2
3. Comprehension of a Poem Part 3
4. Use of Simile: Activity
5. Exercise-Summary Skills-1

4.3 Grammar

1. Present Perfect Continuous Tense (Uses&Formation)
2. Present Perfect Continuous Tense (Table) (explanation & examples)
3. Use of Since and For
4. Synonyms & Antonyms Part 1(syllabus based)
5. Definite and Indefinite Articles (explanation with examples)
6. Exercise-Articles
7. Articles (explanation/identify/insert articles)
8. Special Use of Article "An" and "A"
9. Some Common Uses of Article "The"

4.4 Grammar

1. Writing a Personal Narrative
2. Narrative Essay Sample-Part-1 (writing of essay)
3. Narrative Essay Sample-Part-2 (writing of essay)
4. Narrative Essay Sample-Part-3 (writing of essay)
5. Narrative Essay Sample-Part-4 (writing of essay)
6. Informal Letter Sample (reading and discussion of sample)

4.5 Oral Communication Skills

1. Let Us Talk (Riddles) (Read and Guess)

Chapter # 05

Magic Show (19 Videos)

5.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 5

5.2 Reading for Comprehension

1. Comprehension-Magic Show-Part-1
2. Comprehension-Magic Show-Part-2
3. Road Safety
4. Sign Boards (Zebra Crossing/U-turn etc)

5.3 Grammar

5. Subject-Verb Agreement Part 1 (explanation with examples)
6. Subject-Verb Agreement Part 2 (explanation with examples)
7. Subject-Verb Agreement Part 3 (explanation with examples)
8. Subject-Verb Agreement Part 4 (explanation with examples)
9. Homophones (words with same sounds but different meanings)
10. Use of Thesaurus (synonyms)
11. Synonyms & Antonyms Part 1(syllabus based)

5.4 Writing Skills

1. Writing a Personal Narrative
2. Narrative Essay Sample-Part-1 (writing of essay)
3. Narrative Essay Sample-Part-2 (writing of essay)
4. Narrative Essay Sample-Part-3 (writing of essay)
5. Narrative Essay Sample-Part-4 (writing of essay)
6. Flow Chart of a School Event

5.5 Oral Communication Skills

1. Riddles about Animals(reading /explanation/guess)

Chapter # 06

The Twins (Poem) (16 Videos)

6.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 6
2. Use of Thesaurus (synonyms)

6.2 Reading for Comprehension

1. Comprehension-The Twins (Poem)-1
2. Comprehension-The Twins (Poem)-2

6.3 Grammar

3. Pair of Words (Commonly Confused Words) Part 1
4. Pair of Words (Commonly Confused Words) Part 2
5. Active and Passive Voice (explanation with examples)
6. Active and Passive Voice Table Part 1 (explanation & examples)
7. Active and Passive Voice Table Part 2 (explanation & examples)
8. Active and Passive Voice Table Part 3 (explanation & examples)
9. Active and Passive Voice Table Part 4 (explanation & examples)
10. Exercise-Active & Passive Voice

6.4 Writing Skills

1. Phrasal Verbs (10)- [meanings & Sentences] Part 3
2. Phrasal Verbs (10)- [meanings & Sentences] Part 4

3. Exercise-Summary Skills-1
- 6.5 Oral Communication Skills**
1. How to Express a Wish

Chapter # 07

Clever Mirchu (17 Videos)

- 7.1 Vocabulary**
1. Vocabulary (words/meanings/sentences) Part 7
- 7.2 Reading for Comprehension**
1. Comprehension-Clever Mirchu-Part 1
 2. Comprehension-Clever Mirchu-Part 2
- 7.3 Grammar**
1. Synonyms & Antonyms Part 1(syllabus based)
- 7.4 Writing Skills**
3. Character Sketch(explanation/steps to follow)
 4. Descriptive Essay Sample (writing of essay)
 5. Writing Information About Your Favourite Personality/ Biography
 6. Elements of a Story Part 1
 7. Elements of a Story Part 2
 8. Dialogue Writing Part 1
 9. Dialogue Writing Part 2
 10. Dialogue Writing Part 4
 11. Dialogue Writing Part 5
- 7.5 Oral Communication Skills**
1. Diphthongs: Sounds and Symbols Part 1
 2. Diphthongs: Sounds and Symbols Part 1
 3. Diphthongs: Sounds and Symbols Part 3
 4. Expressing Agreement or Disagreement

Chapter # 08

Hockey (13 Videos)

- 8.1 Vocabulary**
1. Vocabulary (words/meanings/sentences) Part 8
 2. Use of Thesaurus (synonyms)

8.2 Reading for Comprehensio

1. Comprehension-Hockey-Part 1
2. Comprehension-Hockey-Part 2

8.3 Grammar

3. Subject-Verb Agreement Part 1 (explanation with examples)
4. Subject-Verb Agreement Part 1 (explanation with examples)
5. Use of Determiners

8.4 Writing Skills

1. Use of Thesaurus (synonyms)
2. Use of Thesaurus (synonyms)
3. Dialogue Writing Part 2
4. Dialogue Writing Part 4

8.5 Oral Communication Skills

1. Dialogue Writing Part 5

Chapter # 09

Prayer (Poem) (15 Videos)

9.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 9
2. Use of Thesaurus (synonyms)
3. Transitional Devices (explanation/fill blanks)
4. More on Transitional Devices

9.2 Reading for Comprehension

1. Comprehension-Prayer (Poem)-Part 1
2. Comprehension-Prayer (Poem)-Part 2

9.3 Grammar

1. Comprehension-Prayer (Poem)-Part 2
2. Comprehension-Prayer (Poem)-Part 2
3. Prepositions of Reason
4. 4 Letter Rhyming Words (ending with ake)

9.4 Writing Skills

1. Paraphrasing (explanation with examples)
2. Paraphrasing (explanation with examples)
3. How to Express a Wish

9.5 Oral Communication Skills

1. Comprehension of a Play Part 1
2. Comprehension of a Play Part 1

Chapter # 10

Hazrat Umar (R.A.) (08 Videos)

10.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 10
2. Use of Thesaurus (synonyms)
3. Synonyms & Antonyms Part 1(syllabus based)

10.2 Reading for Comprehension

1. Comprehension-Hazrat Umar (R.A.)Part 1
2. Comprehension-Hazrat Umar (R.A.)Part 2

10.3 Grammar

1. Countable and Uncountable Nouns (explanation with examples)

10.4 Writing Skills

1. Writing an Informational Article

10.5 Oral Communication Skills

1. Types of Writing Systems in a Play

Chapter # 11

A Great Virtue (14 Videos)

11.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 11

11.2 Reading for Comprehension

1. Comprehension-A Great Virtue-Part 1
2. Comprehension-A Great Virtue-Part 2

11.3 Grammar

1. Prepositions of Place
2. Prepositions of Place
3. Prepositions of Reason
4. Kinds of Adjectives (explanation with examples)
5. Exercise-Kinds of Adjectives

11.4 Writing Skills

3. Elements of a Story Part 1
4. Elements of a Story Part 2
5. Elements of a Story
6. Fantasy and Realistic Story

7. Writing Your Own Fable

11.5 Oral Communication Skills

1. Syllable Stress: Word Form

Chapter # 12

Water is a lovely thing (Poem) (17 Videos)

12.1 Vocabulary

1. Vocabulary (words/meanings/sentences) Part 12
2. Synonyms & Antonyms Part 1(syllabus based)
3. 4 Letter Rhyming Words (ending with ake)

12.2 Reading for Comprehension

1. Comprehension-Water is a lovely thing (Poem)-Part 1
2. Comprehension-Water is a lovely thing (Poem)-Part 2

12.3 Grammar

1. Comprehension-Water is a lovely thing (Poem)-Part 2
2. Pair of Words (Commonly Confused Words) Part 2
3. Concrete Nouns (explanation with examples)
4. Abstract Nouns (explanation with examples)
5. Exercise-Abstract Nouns-1
6. Exercise-Abstract Nouns-2

12.4 Writing Skills

1. Use of Simile: Activity
2. Use of Metaphor

12.5 Oral Communication Skills

1. One Syllable Words (corn, nest etc)
2. Two Syllable Words-but/ter, san/dal etc
3. Two Syllable Words-can/dle, ti/ger etc
4. Intonation Patterns with Examples

Chapter # 13

he Telephone (16 Videos)

13.1 Vocabulary

1. Word Pairs (5)- [meanings & Sentences] Part 1

13.2 Reading for Comprehension

1. Comprehension-The Telephone-Part 1
2. Comprehension-The Telephone-Part 2
3. Elements of a Story Part 1
4. Elements of a Story Part 2

13.3 Grammar

5. Proverbs-Meaning Part 1
6. Proverbs-Meaning Part 2
7. Proverbs-Meaning Part 3
8. Proverbs-Meaning Part 4
9. Proverbs-Meaning Part 5

13.4 Writing Skills

1. Persuasive/Argumentative Essay Comparison(explanation with table)
2. A Sample Persuasive Essay (explanation)
3. A Sample Argumentative Essay (explanation)
4. Tabulated Instructions For A Recipe
5. Summary of a Short Passage (reading/outlining/checking/writing)

13.5 Oral Communication Skills

1. ed' Sounds

Chapter # 14

Let's Make Our Roads Safer (20 Videos)

14.1 Vocabulary

1. Word Pairs (5)- [meanings & Sentences] Part 2

14.2 Reading for Comprehension

1. Comprehension-Let's Make Our Roads Safer-Part 1
2. Comprehension-Let's Make Our Roads Safer-Part 2

14.3 Grammar

1. Use of Thesaurus (synonyms)
2. Synonyms & Antonyms Part 1(syllabus based)
3. Subject-Verb Agreement Part 2 (explanation with examples)
4. Subject-Verb Agreement Part 3 (explanation with examples)
5. Subject-Verb Agreement Part 4 (explanation with examples)

14.4 Writing Skills

3. Cause and Effect Essay Sample (writing of essay)
4. More on Cause and Effect Essay Sample (writing of essay)
5. A Sample Cause and Effect Essay (mind map/outline/writing)

6. More on A Cause and Effect Essay
7. News Report
8. Writing an Article

14.5 Oral Communication Skills

1. One Syllable Words (corn, nest etc)
2. Two Syllable Words-but/ter, san/dal etc
3. Two Syllable Words-can/dle, ti/ger etc
4. Homographs
5. Homonyms

Class-08 (Mathematics)

(Total Videos # 225)

Chapter # 01

Sets (25 Videos)

1.1 Sets

1. Describing a Set
2. Problem-Describing a Set
3. Introduction to Venn Diagram
4. Problem-Introduction to Venn Diagram
5. Problem-Representing Sets Through Venn Diagrams

1.2 Power Set

1. Power Set
2. Problem-Concept of Power Set

1.3 Operation on Sets

1. Union of Two Sets
2. Problem-Union of Two Sets
3. Intersection of Set
4. Problem-Intersection of Two Sets
5. Difference of Sets
6. Problem-Difference of Two Sets
7. Associative Property of Union of Sets
8. Problem-Union of Three Sets
9. Associative Property of Intersection of Sets
10. Problem-Intersection of Three Sets
11. Performing Union of Sets Through Venn Diagram
12. Problem-Performing Union of Sets Through Venn Diagram
13. Performing Intersection of Sets Through Venn Diagram
14. Problem-Performing Intersection of Sets Through Venn Diagram

1.4 DE Morgans Laws

1. Demorgan Law 1
2. Problem-Complement of Union Equals Intersection of Complements
3. Demorgan Law 2
4. Problem-Complement of Intersection Equals Union of Complements

Chapter # 02

Real Numbers (42 Videos)

2.1 Decimal Fractions

1. Terminating Decimals
2. Problem-Terminating Decimals
3. Non-terminating Decimals
4. Problem-Non-terminating Decimals

2.2 Irrational Numbers

1. Concept of Rational Numbers
2. Problem-Concept of Rational Numbers
3. Concept of Irrational Numbers
4. Problem-Concept of Irrational Numbers

2.3 Real Numbers

1. Introduction to Real Numbers
2. Problem-Concept of Real Numbers
3. Absolute or Numerical Value of an Integers or Directed Numbers
4. Prob-Absolute or Numerical Value of an Integers or Directed Numbers

2.4 Properties of Real Numbers

1. Closure law of Whole Numbers Addition and Multiplication
2. Closure law of Whole Numbers Subtraction and Division
3. Closure law of Integers Addition, Multiplication & Subtraction
4. Closure law of Integers Division
5. Problem 1: Closure law of Integers Addition, Multiplication & Subtraction
6. Closure law of Rational Numbers Subtraction and Division
7. Problem-Closure Law of Rational Numbers
8. Problem 1: Closure Law of Rational Numbers
9. Associative Law of Addition
10. Problem-Associative Law of Addition
11. Associative Law of Multiplication
12. Problem-Associative Law of Multiplication
13. Additive Identity
14. Problem-Additive Identity
15. Multiplicative Identity
16. Problem-Multiplicative Identity
17. Additive Identity & Additive Inverse
18. Problem1-Additive Identity & Additive Inverse
19. Problem2-Additive Identity & Additive Inverse
20. Multiplicative Identity & Inverse
21. Problem1-Multiplicative Identity & Inverse
22. Problem2-Multiplicative Identity & Inverse
23. Commutative Law of Addition

24. Problem-Commutative Law of Addition
25. Commutative law of Multiplication
26. Problem-Commutative law of Multiplication
27. Distributive Law of Multiplication Over Addition
28. Problem-Distributive Law of Multiplication Over Addition
29. Distributive Law of Multiplication Over Subtraction
30. Problem-Distributive Law of Multiplication Over Subtraction

Chapter # 03

Squares and Square Roots, Cubes and Cube

(18 Videos)

3.1 Square Roots

1. Introduction to Square Root of Positive Numbers
2. Problem-Introduction to Square Root of Positive Numbers
3. Square Root of a Natural Number
4. Problem-Finding Square Roots By Prime Factorization
5. Finding Square Roots of Fractions
6. Problem-Finding Square Roots of Fractions
7. Finding Square Roots of Decimals
8. More on Finding Square Roots of Decimals
9. Problem-Finding Square Roots of Decimals
10. Finding Square Roots of Decimals
11. More on Finding Square Roots of Decimals
12. Problem-Finding Square Roots of Decimals By Division Method
13. Solving Problem Involving Square Root-Problem-1
14. Solving Problem Involving Square Root-Problem-2

3.2 Cube Roots

1. Concept of Cubes and Perfect Cubes
2. Cubes and Cube Roots
3. Problem-Cube Roots of Numbers which are Perfect Cubes
4. Problem-Cube Roots of Numbers which are Perfect Cubes

Chapter # 04

Variations (06 Videos)

4.1 Direct Proportion

1. Direct Proportion by Graph

4.2 Inverse proportion

1. Inverse Proportion by Graph

4.3 Compound proportion

2. Introducing Compound Proportion
3. Problem-Concept of Compound Proportion
4. Solving Word Problem of Compound Proportion-Problem1
5. Solving Word Problem of Compound Proportion-Problem2

Chapter # 05

Financial Mathematics (32 Videos)

5.1 Currency Conversion

1. Conversion of Currencies
2. Problem1-Money Exchange
3. Problem2-Money Exchange
4. Problem3-Money Exchange

5.2 Profit, Loss and Discount

1. concept of percent profit
2. concept of percent profit
3. Concept of Profit and Loss Percent
4. More on Concept of Profit and Loss Percent
5. Problem-Related to Profit or Loss Percent-p1
6. Problem-Related to Profit or Loss Percent-p2
7. Concept of Discount
8. Problem-Concept of Discount

5.3 Profit and Markup

1. Concept of Markup
2. Problem-Concept of Markup
3. Problem-Concept of Markup
4. More on Word Problem of Markup

5.4 Insurance, Partnership, Inheritance

1. Introducing Insurance and its Components
2. More on Introducing Insurance and its Components
3. More on Introducing Insurance and its Components
4. More on Life Insurance
5. Vehicle Insurance
6. Introducing Business Partnership
7. Problem Related to Partnership-p1
8. Problem Related to Partnership-p2
9. More on Problem Related to Partnership-p2

10. Problem Related to Partnership-p3
11. Introducing Inheritance
12. More on Introducing Inheritance
13. More on Introducing Inheritance
14. More on Problem Related to Inheritance-p1
15. More on Problem Related to Inheritance-p1
16. Problem Related to Inheritance-p3

Chapter # 06

Algebra (33 Videos)

6.1 Division of Algebraic Expression

1. Division of Polynomials
2. Problem-Division of Polynomials

6.2 Basic Algebraic Identities

1. Product of Same Binomial
2. More on Product of Same Binomial
3. Difference of Square of Two Terms
4. Problem1-Difference of Square of Two Terms
5. Problem2-Difference of Square of Two Terms
6. Problem-Product of Same Binomial

6.3 Factorization

1. Factorization of Expressions of the Form $ka+kb+kc$
2. Problem-Factorization of Expressions of the Form $ka+kb+kc$
3. Factorization by Making Groups
4. Problem-Factorization by Making Groups
5. Factoring Square of Sum Or Difference of Two Terms
6. Problem-Factoring Square of Sum-Difference of 2 Terms
7. Factoring Difference of Square of Two Terms
8. Problem1-Factoring Difference of Square of Two Terms

6.4 Manipulation of algebraic expressions

1. Manipulation of Algebraic Expression
2. More on Manipulation of Algebraic Expression
3. Problem1-Manipulation of Algebraic Expression
4. Problem2-Manipulation of Algebraic Expression

6.5 Laws of Exponents/Indices

1. Identification of Base, Exponent and Value
2. Problem-Identification of Base, Exponent and Value
3. Product Law of Exponents of Rational Numbers
4. Problem-Product Law of Exponents of Rational Numbers
5. Quotient Law of Exponents of Rational Numbers

6. Problem-Quotient Law of Exponents of Rational Numbers
7. Zero and negative Indices
8. Problem-Negative Exponent of Rational Numbers
9. Problem-Negative Exponent of Rational Numbers
10. Problem-Power Law of Rational Numbers
11. Problem-Power Law of Rational Numbers
12. Applications of Laws of Exponents
13. Problem-Appling Laws of Exponents to Evaluate Expressions

Chapter # 07

Linear Equations (11 Videos)

7.1 Graphs of Linear Equations

1. Graphing linear equation in coordinate system
2. The gradient/slope of the straight line
3. Determine the y-intercept of a straight line

7.2 Simultaneous linear equations

4. Recognizing and formation of Linear Equations in One and Two Variabl
5. Solution of a Linear Equation in Two Unknowns
6. Solution of Two Linear Equations Involving Two Variables
7. Problem-Solution of Two Equations Involving Two Variables
8. Problem-Solving Simultaneous Linear Equations Graphically
9. Problems Involving Linear Equations in Two Variables
10. Linear Equations in one, two and three variables
11. Problem-Introduction to Linear Equations

Chapter # 08

Geometry (16 Videos)

8.1 Congruent and Similar Figures

1. Identification of Congruent and Similar Figures

8.2 Congruent Triangles

1. Congruent Triangles
2. Side-Side-Side Postulate
3. Side-Angle-Side Postulate
4. Angle-Side-Angle Postulate
5. Hypotenuse-Side Postulate
6. Application of the Properties for Two Figures

8.3 Circle

1. Concept of Radius, Chord and Diameter
2. Angle in a Semicircle is a Right Angle
3. Segment of a Circle
4. Segment of a Circle
5. Point Lying in the Interior and Exterior of a Circle
6. Chord , Diameter & Circumference of a Circle
7. Arc of a Circle
8. Concept of Secant & Tangent Line
9. Arc length and area of the sector of circle

Chapter # 09

Practical Geometry (04 Videos)

9.1 Construction of Triangles

1. Constructing Triangle when three sides are Given
2. Construction of Triangle with 1 Angle & 2 Sides
3. Constructing Triangle with 1 Side & 2 Angles
4. RHS Triangle Construction

Chapter # 10

Mensuration (14 Videos)

10.1 Pythagoras Theorem

1. Pythagoras Theorem
2. Solution of Right Angle Triangle through Pythagoras Theorem

10.2 Surface Area and Volume

3. Total Surface Area of Pyramid
4. Volume of Pyramids
5. Surface Area of a Sphere
6. Volume of a Sphere
7. Volume of Hemispheres
8. Surface Area of Hemisphere
9. Surface Area of a Cone
10. Volume of a Cone
11. Word problem on 3 D shapes
12. Word Problem Involving Circumference-Area of a Circle
13. Word Problem Involving Surface Area & Volume-Cylinder

14. Real life problems related to volume

Chapter # 11

Transformations (07 Videos)

11.1 Rotation

1. Rotation of an object
2. Rotation in coordinate plane
3. Angle and center of rotation

11.2 Enlargement

1. Enlargement with Positive Scale Factor
2. More on Enlargement with Positive Scale Factor
3. Enlargement with Negative Scale Factor
4. Center and Scale Factor of Enlargement

Chapter # 12

Data Handling (08 Videos)

12.1 Frequency Distribution

1. Class Frequency
2. Constructing Histogram with Equal Intervals
3. Problem-Concept of Histogram
4. Construction of Frequency Polygon
5. Problem on Construction of Frequency Polygon

12.2 Measures of Dispersion

1. Range, variance and standard deviation for ungrouped data

12.3 Interpretation of Data

1. Interpolation and Extrapolation
2. Spread and outliers

Chapter # 13

Probability (09 Videos)

13.1 Probability

1. Introduction to probability
2. Equally likely outcomes
3. Probability of Equally likely outcomes
4. Word problem on probability
5. Application of Probability

13.2 Probability of a Simple Combined Events

1. Simple Combined Events and Possibility Diagrams
2. Problem-Simple Combined Events and Possibility Diagrams
3. Tree diagram

13.3 Experimental and Theoretical Probability

6. Experimental probability

Class-08 (Computer Science)

(Total Videos # 72)

Chapter # 01

Probability (15 Videos)

1.1 Computer Network

1. What is Information technology
2. What is Computer Network
3. Components of communication System
4. Difference between Client and Server
5. Types of Networking w.r.t Area: LAN, WAN, MAN
6. Dial-Up Modem
7. Network Interface Card
8. STP : Ethernet : Twisted Pair Cable
9. Co-axial Cable
10. Optical Fibers

1.2 Cutting Edge technologies

1. Introduction to Wireless Communication
2. Introduction to Mobile device Communication
3. Satellite Communication
4. Global Positioning System
5. Bluetooth Network

Chapter # 02

Computer Security Threats (08 Videos)

2.1 Computer Security Threats

1. Security Threats
2. Computer Virus : What is Virus and How it Spread
3. Worm , Adware , Spyware , Malware
4. Privacy issues and hacking
5. Types of Virus
6. Hacker and Cracker

2.2 Managing an Antivirus

1. How to Protect from Viruses
2. Downloading and Installation of Antivirus

Chapter # 03

Spreadsheets in Excel (20 Videos)

3.1 Introduction to Spreadsheet

1. Basics of Spreadsheet

2. Excel window
3. Microsoft Excel terminology
4. Creating workbook, naming and working with cells and sheets
5. Filling columns and rows
6. Addressing cells
7. Paste cell content
8. Insert data in cells and ranges
9. Working with formulas
10. Working with functions
11. More on working with functions
12. Named Ranges
13. Working on Sample Spreadsheets

3.2 Formatting Worksheet Elements

1. Format cells and ranges
2. Shortcut Keys in MS Excel
3. More on Shortcut Keys 2 in MS Excel
4. Format worksheets and workbooks

3.3 Inserting charts

1. Representing data graphically
2. Create charts
3. Format charts

Chapter # 04

Problem Solving (08 Videos)

4.1 Problem Solving

1. Introduction to problem solving
2. Problem solving method

4.2 Flowcharting

1. What is a Flow chart
2. Basic Components to design a Flow Chart
3. Advantages of Flow chart
4. Flowchart requirements
5. Flow Chart Examples
6. Flow Chart Examples_2

Chapter # 05

Computer Programming (21 Videos)

5.1 Introduction to Programming

1. What is Computer Programming
2. Computer Program
3. Characteristics of High level languages
4. What are Constants
5. More On Constants
6. The Concept of Variable
7. What are Strings
8. Rules for naming variable
9. How to identify errors in Computer Program
10. Types of Error: Syntax error
11. Types of Error: Runtime error
12. Types of Error: Logical error
13. Assignment Operators
14. Arithmetic Operators
15. Precedence of Operator from Top to bottom
16. Relational operators

5.2 Programming in BASIC

1. Introduction to BASIC Language
2. Commands in BASIC
3. Statements in BASIC

5.3 Programs in BASIC

1. Sample Programs in BASIC
2. More Sample Programs in BASIC

Class-08 (General Science)

(Total Videos # 145)

Chapter # 01

Human Organ Systems (15 Videos)

1.1 Nervous System

1. Neuron
2. Neuron Types

3. The Central Nervous System (CNS)
4. Brain
5. Peripheral Nervous System
6. Working Model of the Nervous System
7. Actions Controlled by the Nervous System

1.2 Reflex Action

1. Reflex Action

1.3 Excretory System

1. Excretion in Human
2. Structure of Kidney
3. Structure of Nephron
4. Functions of Kidney

1.4 Malfunctioning of Kidneys

1. Kidney Stone
2. Kidney (Renal) Failure
3. Kidney Transplant

Chapter # 02

Cell Division and Heredity (08 Videos)

2.1 Cell Division

1. Cell Cycle
2. Mitosis
3. Phases of Meiosis
4. Difference Between Mitosis and Meiosis

2.2 Heredity

1. Heredity

2.3 Basis of Heredity

2. Concept of Gene
3. Watson-Crick Model of DNA
4. Transmission of Characters

Chapter # 03

Biotechnology (09 Videos)

3.1 DNA Replication

1. Introduction to Biotechnology
2. Replication of DNA
3. Genetic Engineering

3.2 Introduction of Gene into Bacterium

1. Recombinant DNA Technology
2. Introduction of Genes into Bacterium

3.3 Genetic Modifications

1. Genetic Modifications
2. Production of Insulin from Genetically Modified Bacterium

3.4 Applications of Biotechnology

1. Role of Biotechnology in Agriculture, Food Production and Preservation
2. Role of Biotechnology in Health and Environment

Chapter # 04

Pollutants and Their Effects on Environm (13 Videos)

4.1 Air Pollutants and Their Sources

1. Pollution
2. Sources of Air Pollutants
3. Sulphur Dioxide and Nitrogen Dioxide as Air Pollutants
4. Carbon Monoxide and Chlorofluorocarbons as Air Pollutants

4.2 Effects of Human Activities on Environm

1. Green House Effect
2. Depletion of Ozone
3. Global Warming
4. Acid Rain
5. Deforestation
6. Lack of Natural Resources

4.3 Conservation of Resources

1. Ways of Savings Our Surroundings

4.4 Saving the Earth

1. Solid Waste Management
2. Ways of Savings Our Surroundings

Chapter # 05

Chemical Reactions (10 Videos)

- 5.1 Chemical Reactions**
 - 1. Introduction to Chemical Reactions
 - 2. Applications of Chemical Reactions
- 5.2 Chemical Equation and Their Balancing**
 - 3. Chemical Equation and Their Balancing
 - 4. More on Chemical Equation and Their Balancing
- 5.3 Law of Conservation of Mass**
 - 1. Law of Conservation of Mass
- 5.4 Types of Chemical Reactions**
 - 1. Decomposition Reactions
 - 2. More on Types of Chemical Reactions
- 5.5 Energy Changes in Chemical Reactions**
 - 1. Exothermic Reactions
 - 2. Endothermic Reactions
 - 3. Importance of Exothermic Reactions

Chapter # 06

Acids, Alkalis/ Bases and Salts (23 Videos)

- 6.1 Acids**
 - 1. Introduction to Acids and Bases
 - 2. Acids and Common Sources
 - 3. Physical Properties of Acids
 - 4. Chemical Properties of Acids
 - 5. Uses of Hydrochloric Acid
 - 6. Uses of Nitric Acid
 - 7. Uses of Sulphuric Acid
 - 8. Uses of Acetic Acid
- 6.2 Bases/Alkalis**
 - 1. Bases/Alkalis
 - 2. Physical Properties of Bases
 - 3. Chemical Properties of Bases
 - 4. Chemical Properties of Bases
 - 5. Uses of Bases
 - 6. Uses of Calcium Hydroxide
 - 7. Uses of Ammonium Hydroxide
- 6.3 Salts**
 - 1. Salts
 - 2. Properties of Salt

3. Uses of Salts
- 6.4 pH scale**
1. Importance of pH
 2. Measuring of pH by pH Meter
- 6.5 Indicators**
1. Indicators
 2. Universal Indicator
 3. Natural Indicators

Chapter # 07

Force and Pressure (12 Videos)

- 7.1 Pressure, Force and Area**
1. Atmosphere Pressure
 2. Units of Pressure
- 7.2 Water Pressure**
1. Water Pressure
- 7.3 Liquid Pressure in Closed Containers**
1. Pascal's Law
- 7.4 Applications of Pascal's Law**
1. Hydraulic System
 2. Applications of Hydraulic System
- 7.5 Gas Pressure in a Container**
1. Pneumatics and Pressure of Gases
 2. Boyle's Law
 3. Applications of Compressed Air
- 7.6 Aerosols**
1. Aerosols
- 7.7 Atmosphere Pressure**
1. Atmosphere Pressure
 2. Change in Atmospheric Pressure with Altitude

Chapter # 08

Measurement of Physical Quantities (08 Videos)

8.1 Physical Quantities

1. Physical Quantities

8.2 International System of Units

1. International Systems of Base Units
2. System International Units for Volume
3. Introduction to Prefixes
4. Interconversion of Units

8.3 Measuring Instruments

1. Measuring with Meter Rule and Measuring Tape
2. Measuring Volume by Cylinder
3. Some Measuring Instruments

Chapter # 09

Sources and Effects of Heat Energy (08 Videos)

9.1 Sources of Heat

1. Heat
2. Sources of Heat

9.2 Effects of Heat

1. Expansions of Solids
2. Expansion of Liquids
3. Expansion of Gases

9.3 Applications of Expansions of Solids

1. Applications of Thermal Expansion of Solids

9.4 Uses of Expansion of Liquids

1. Thermometer

9.5 Peculiar Behaviour of Water

1. Peculiar Behaviour of Water

Chapter # 10

Lenses (12 Videos)

10.1 Lenses

1. Lenses

10.2 Types of Lenses

1. Types of Lenses
2. Lenses

10.3 Image Formation by Lenses

1. Ray Diagrams
2. Image Formation by Using a Convex Lens
3. Image Formation by Using a Concave Lens

10.4 Image Formation in Camera and Human Eye

1. Image Formation in Camera
2. Image Formation in Human Eye

10.5 How Eyes Get Used to Darkness After Som

1. Adjustment of Eyes to Darkness

10.6 Defects of Human Eye

1. Short-sightedness and its Correction
2. Short-sightedness and its Correction

10.7 Uses of Lenses

1. Uses of Lenses

Chapter # 11

Electricity (16 Videos)

11.1 How Electricity is Produced?

1. Introduction to Electricity and Magnetism
2. Generating Electricity
3. Alternating Current Generator
4. Working of a Bicycle Dynamo
5. Working of a Power Plant
6. Hydroelectric Power

11.2 Energy Sources to Generate Electricity

1. Solar Energy
2. Wind power plant
3. Nuclear Power Plant
4. Thermal Power Plant

11.3 Problems Involved in Generating Electri

1. Safety Devices To Avoid Electrical Hazards
2. More on Safety Devices To Avoid Electrical Hazards

11.4 Electronic Systems

1. Electronic Systems
2. Semiconductor Diode
3. Transistors

11.5 Uses of Various Electronic Devices

1. I/O Hardware : Input Output Devices

Chapter # 12

Exploring Space (11 Videos)

12.1 Telescope, Spectroscope and Spacecraft

1. Universe And Space
2. Universe And Space
3. Refracting telescope
4. Spectroscopes
5. Spacecrafts and Their Types
6. Space Stations
7. Space Shuttle

12.2 Space Exploration

1. Benefits of Space Exploration
2. More Benefits of Space Exploration
3. Survival and Research in Space
4. Technologies Used for Space Explorations