

CBSE (NCERT) GRADE 11 - LIST OF VIDEO CLASSES

PCMC

Subject	Number of Videos
Mathematics	183
Physics	302
Chemistry	214
Computer Science	98
English	82
Total	879

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CBSE GRADE - 11 (PHYSICS) TABLE OF VIDEO CLASSES

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CBSE GRADE - 11 (CHEMISTRY) TABLE OF VIDEO CLASSES

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Organic Chemistry	Qualitative Analysis - Part 1
	Qualitative Analysis - Part 2
	Tetravalence of Carbon; Structural Formula of Compounds of Carbon - Part 1
	Structural Formula of Compounds of Carbon - Part 2
	Nomenclature of Organic Compounds - Part 1
	Nomenclature of Organic Compounds - Part 2; Functional Groups - Part 1
	Functional Groups - Part 2; Isomerism
	Types of Isomerism
	Fission of a Covalent Bond; Substrate & Reagent
	Inductive Effect; Resonance Effect
	Electrometric Effect; Hyperconjugation
	Distillation under Reduced Pressure; Differential Extraction; Chromatography
	Position Isomerism; Heterolytic Fission; Resonance Effect
	Methods of Purification of Organic Compounds; Types of Chromatography
	Quantitative Analysis; Resonance Energy; Some Functional Groups
Hydrocarbons	Introduction
	Preparation of Alkanes
	Properties of Alkanes; Conformations
	Alkanes Conformations; Nomenclature of Alkenes
	Alkenes - Isomers; Preparations; Physical Properties
	Alkenes - Chemical Properties - Part 1
	Alkenes - Chemical Properties - Part 2
	Alkynes - Preparations; Physical & Chemical Properties; Aromatic Hydrocarbons
	Structure of Benzene; Huckel Rule; Preparation of Benzene; Properties of Benzene

	Properties of Benzene - Part 2; Directive Influence of Functional Group in Monosubstituted Benzene; Carcinogenicity & Toxicity of Hydrocarbons
	Nomenclature & Isomerism in Alkane; Decarboxylation & Kolbe's Electrolytic Method; Addition Reactions; Dihedral Angle
Environmental Chemistry	Smog
	Environmental Pollution
	Tropospheric Pollution
	Stratospheric Pollution; Water Pollution
	International Standards for Drinking Water; Soil Pollution; Strategies to Control Environmental Pollution; Green Chemistry

CBSE GRADE - 11 (COMPUTER SCIENCE) TABLE OF VIDEO CLASSES

CHAPTER NAME	VIDEO NAME
Computer System Overview	Introduction
	Basic Computer Organization
	The Memory
	The Storage Unit
	The System Bus
	Mobile System Organization
	Software
Data Representation	Introduction
	Number Systems; Number Conversions - Part 1
	Number Conversions - Part 2; Representation of Unsigned Integers in Binary
	Number Conversions - Part 3
	Decimal & Binary Addition; Character and String Representation
	Unicode; Unicode Encoding Scheme
	UTF-8 1 Byte Representation; UTF-8 2 Byte Representation
	UTF-8 3 Byte Representation; UTF-8 4 Byte Representation; UTF-32
Boolean Logic	Introduction
	Logical Operations
	Evaluation of Boolean Expressions using Truth table
	Basic Logic Gates
	Postulates of Boolean Logic
	Theorems of Boolean Logic – Part 1
	Theorems of Boolean Logic – Part 2

	De-Morgan's Theorem
	More About Logic Gates
Insight into Program Execution	Introduction
	Basic Flow of Compilation
	The Compilation Process
	The Interpretation Process
	Role of Operating System
	Parallel Computing
	Cloud Computing
Computational Thinking	Introduction
	Python-Pulses
	Python- Some Minuses
Python Fundamentals	Introduction
	Identifiers; Literals - Part 1
	Literals - Part 2
	Literals - Part 3
	Operators
	Barebones of Python Program
	Python Rules and Conventions; Variables and Assignments - Part 1
	Variables and Assignments - Part 2
	Dynamic Typing; Input & Output Function - Part 1
	Input & Output Function - Part 2
	Input & Output Function - Part 3
Data Handling	Introduction
	Length of a String; List and Tuples
	Mutable and Immutable Types - Part 1
	Mutable and Immutable Types - Part 2; Variable Internals
	Operators - Part 1
	Operators - Part 2
	Operators - Part 3
	Operators - Part 4
	Operators - Part 5
	Operators - Part 6
	Operator Precedence; Operator Associativity; Expressions - Part 1
	Expressions - Part 2; Evaluating Expressions - Part 1
	Evaluating Expressions - Part 2
	Evaluating Expressions - Part 3
	Type Casting; Standard Python Modules
	Math Module - Part 1
	Math Module - Part 2
	Random Module - Part 1

	Random Module - Part 2; Statistics Module
Conditional and Iterative Statements	Introduction
	Iterative Construct; Program Logic Development Tools
	The If Statements- Part 1
	The If Statements- Part 2; If-Elif Statements
	Nested if
	The Range () Function
	Looping Statements – Part 1
	Looping Statements – Part 2
	Looping Statements – Part
	Exercises – Part 1
	Exercises – Part 2
	Exercises – Part 3
String Manipulation	Introduction
	Traversing a String
	String Operators
	String Slices
	String Functions and Methods
Debugging Programs	Introduction
	Debugging
	Errors and Exceptions
	How to Debug a Program
	Debugger Tool
List Manipulation	Introduction
	Creating and Accessing Lists
	List Operations
	Slicing the Lists
	Working with Lists
	List Functions and Methods
Tuples	Introduction
	Creating and Accessing Tuples
	Tuple Operations
	Tuple Functions and Methods
Dictionaries	Introduction
	Dictionary – Key: Value Pairs
	Working with Dictionaries – Part 1
	Working with Dictionaries – Part 2
	Dictionary Functions and Methods
Understanding Sorting	Introduction
	Sorting
	Bubble Sort
	Insertion Sort
Relational Databases	Introduction

	Purpose of DBMS; Relational Database Model
	MySQL Database System
	MySQL and SQL
	Data Definition Language
Simple Queries in SQL	Introduction
	Some MySQL SQL Elements
	SQL Command Syntax
	Sample Database - Part 1
	Sample Database - Part 2
	Sample Database - Part 3
	Sample Database - Part 4
	Sample Database - Part 5
	MySQL Functions
	Aggregate Functions
Table Creation and Data Manipulation Commands	Introduction
	Databases in MySQL
	Creating Tables
	Changing Data with DML Commands
	More DDL Commands
Basics of NoSQL Database - MongoDB	Introduction
	NoSQL Databases
	Working with MongoDB
Cyber Safety	Introduction
	Safely Browsing the Web
	Identity Protection While Using Internet
	Confidentiality of Information
	Cybercrime
	Common Social Networking Sites
Online Access and Computer Security	Introduction
	Threats of Computer Security
	Cookies
	Solutions to Computer Security
	Firewall

ENGLISH GRAMMAR (COMPLIMENTARY) TABLE OF VIDEO CLASSES

CHAPTER NAME	VIDEO NAME
Alphabet	Vowels and Consonants
Parts of Speech	Parts of Speech
	Nouns
	Pronouns
	Adjectives

	Verbs
	Adverbs - 1
	Adverbs - 2
	Proposition - 1
	Preposition - 2
	Conjunctions
Types of Nouns	Introduction to Nouns and Proper Nouns
	Common Noun and Collective Noun
	Countable and Uncountable Nouns - Part 1
	Countable and Uncountable Nouns - Part 2
	Concrete and Abstract Nouns
Noun Gender	Noun Gender
	Neuter Gender
Noun Cases	Noun Cases
	Objective Case / Accusative Case
	Possessive Case
	Vocative Case
Noun Number	Noun Number - Singular - Plural Rules 1,2,3,4
	Noun Number - Singular - Plural Rules 1,2,3,4
	Noun Number - Singular - Plural Rules 11,12
Compound Nouns	Compound Nouns - Part 1
	Compound Nouns - Part 2
	Compound Nouns - Part 3
Articles	Articles - 1
	Articles - 2
	Definite Article "THE" - Part 1
	Definite Article "THE" - Part 2
Verb	Verb-1
	Verb-2
	Verb-3
Subject Verb Agreement	Subject Verb Agreement -1
	Subject Verb Agreement -2
Pronouns	Pronouns - Personal Pronouns
	Personal Pronouns as Subject and Object
	Relative Pronoun - Demonstrative Pronoun
	Indefinite Pronouns - 1
	Indefinite Pronouns - 2
	Reflexive Pronouns
Tenses	Tenses

	Present Tense - 1
	Present Tense - 2
	Past Tense - 1
	Past Tense - 2
	Future Tense
Figures of Speech	Figures of Speech - 1
	Figures of Speech - 2
	Figures of Speech - 3
	Figures of Speech - 4
Nouns	Proper Noun and Common Noun
	Types of Nouns
Adjectives	Adjectives - 1
	Adjectives - 2
	Adjectives - 3
	Types of Adjectives -1
	Types of Adjectives -2
Articles	Indefinite Articles
	Definite Articles
Auxiliary Verbs	Auxiliary Verbs -1
	Auxiliary Verbs -2
	Auxiliary Verbs - 3
Sentences	The Sentence - Part 1
	The Sentence - Part 2
	Types of Sentences - Part 1
	Types of Sentences - Part 2
Phrases and Clauses	Types of Phrases
	Types of Clauses
Idioms	Idioms - Part 1
	Idioms - Part 2
	Idioms - Part 3
	Idioms - Part 4
	Idioms - Part 5
Question tags	Question tags
Parts of a Sentence	Parts of a Sentence -1
	Parts of a Sentence -2
Pronouns	Interrogative Pronoun
	Possessive Pronoun
Verbs	Main verbs; Auxiliary verbs

*English Grammar is being offered as Complimentary along with Annual Pack