



N.C. JINDAL PUBLIC SCHOOL

PUNJABI BAGH (W), NEW DELHI – 110026

CLASS VIII

COMPUTATIONAL THINKING AND ARTIFICIAL INTELLIGENCE (CT & AI)

SYLLABUS – SESSION 2026–2027

SYLLABUS DETAILS (COMPUTATIONAL THINKING)

MONTH	CHAPTER / TOPIC	KEY LEARNING AREAS
August	Ch. 1 – A Square and a Cube Ch. 2 – Power Play	Squares, cubes, exponents, logical reasoning and pattern recognition
September	Ch. 3 – A Story of Numbers	Number systems, binary, ternary and Roman numerals
October	Ch. 5 – Number Play	Divisibility, multiples, factors and logical puzzles
November	Ch. 4 – Quadrilaterals	Spatial reasoning and properties of quadrilaterals
December	Ch. 6 – We Distribute Yet Things Multiply	Distribution strategies and algebraic thinking
January	Ch. 7 – Proportional Reasoning	Ratio and proportional reasoning
February	Revision & Competency-Based Assessment	Revision and practice

SYLLABUS DETAILS (ARTIFICIAL INTELLIGENCE)

MONTH	CHAPTER/TOPIC	KEY LEARNING AREAS
July - August	Chapter 1 - AI Project Cycle	AI Project Cycle, 4Ws Problem Canvas
October	Chapter 2- Artificial Intelligence and its Applications	Uses of AI in Education, Healthcare, Agriculture, Banking and E-Commerce
November	Chapter 3-Data and Fairness in AI	Data Collection ,Data Quality , Data Collection , Fairness
December	Chapter 4-Ethics and Responsible AI	Safety & Security, Responsible Use, Transparency, Privacy

February	Revision	
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ASSESSMENT & MARKS DISTRIBUTION

RUBRICS	MAXIMUM MARKS	GRADING CRITERIA
CT		
Problem Decomposition	5	Breakdown of tasks
Pattern Recognition	5	Pattern identification
Abstraction	5	Key detail focus
Algorithm Design	5	Step-by-step planning
TOTAL(CT)	20	
AI		
Online Assessment	10	Multiple Choice Questions
Total(CT+AI)	30	

GRADING CRITERIA

GRADE	MARKS
A	20 to 30
B	10 to less than 20
C	0 to less than 10