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Unit	Topic	Learning Objectives	Assessment Methods	Resources
Unit 1	Introduction to the course	Understand the course structure and objectives.	Self-reflection	Course syllabus
Unit 2	Mathematical Induction	Prove statements using mathematical induction.	Homework, Quizzes	Textbook, Lecture notes
Unit 3	Set Theory	Understand the basic concepts of set theory.	Homework, Quizzes	Textbook, Lecture notes
Unit 4	Logic	Understand the basic concepts of logic.	Homework, Quizzes	Textbook, Lecture notes
Unit 5	Combinatorics	Understand the basic concepts of combinatorics.	Homework, Quizzes	Textbook, Lecture notes
Unit 6	Probability	Understand the basic concepts of probability.	Homework, Quizzes	Textbook, Lecture notes
Unit 7	Statistics	Understand the basic concepts of statistics.	Homework, Quizzes	Textbook, Lecture notes
Unit 8	Calculus	Understand the basic concepts of calculus.	Homework, Quizzes	Textbook, Lecture notes
Unit 9	Linear Algebra	Understand the basic concepts of linear algebra.	Homework, Quizzes	Textbook, Lecture notes
Unit 10	Discrete Mathematics	Understand the basic concepts of discrete mathematics.	Homework, Quizzes	Textbook, Lecture notes