

Subject	Topic	Learning objectives	Assessment methods										Assessment results											
			Formative	Summative	Self-reflection	Peer-reflection	Final exam	Project	Portfolio	Research paper	Case study	Group work	Individual work	Formative	Summative	Self-reflection	Peer-reflection	Final exam	Project	Portfolio	Research paper	Case study	Group work	Individual work
Mathematics	Calculus	1. Understand the concept of limits and continuity. 2. Calculate the derivative of a function. 3. Calculate the integral of a function.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Algebra	1. Solve linear equations and inequalities. 2. Solve quadratic equations and inequalities. 3. Solve systems of linear equations and inequalities.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Geometry	1. Calculate the area and perimeter of a rectangle. 2. Calculate the area and perimeter of a triangle. 3. Calculate the area and perimeter of a circle.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Statistics	1. Calculate the mean and standard deviation of a data set. 2. Calculate the correlation coefficient of two variables. 3. Calculate the probability of an event.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Trigonometry	1. Calculate the sine and cosine of an angle. 2. Calculate the tangent and cotangent of an angle. 3. Calculate the secant and cosecant of an angle.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Number theory	1. Calculate the greatest common divisor of two numbers. 2. Calculate the least common multiple of two numbers. 3. Calculate the prime factors of a number.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Combinatorics	1. Calculate the number of permutations of a set of objects. 2. Calculate the number of combinations of a set of objects. 3. Calculate the number of subsets of a set of objects.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Probability	1. Calculate the probability of an event. 2. Calculate the probability of two events occurring together. 3. Calculate the probability of two events occurring separately.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Set theory	1. Calculate the union and intersection of two sets. 2. Calculate the complement of a set. 3. Calculate the power set of a set.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Logic	1. Calculate the truth value of a statement. 2. Calculate the truth value of a compound statement. 3. Calculate the truth value of a quantified statement.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
Science	Physics	1. Calculate the speed and acceleration of an object. 2. Calculate the force and pressure of a fluid. 3. Calculate the energy and power of a system.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Chemistry	1. Calculate the molar mass and molecular weight of a compound. 2. Calculate the stoichiometry of a chemical reaction. 3. Calculate the pH and pOH of a solution.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Biology	1. Calculate the growth rate and carrying capacity of a population. 2. Calculate the mutation rate and selection coefficient of a gene. 3. Calculate the fitness and reproductive success of an individual.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Earth science	1. Calculate the age and composition of a rock sample. 2. Calculate the rate and direction of plate tectonics. 3. Calculate the climate and weather patterns of a region.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Environmental science	1. Calculate the impact of human activities on the environment. 2. Calculate the sustainability of a resource. 3. Calculate the resilience of an ecosystem.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Health science	1. Calculate the risk factors for a disease. 2. Calculate the effectiveness of a treatment. 3. Calculate the quality of life of a patient.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Psychology	1. Calculate the cognitive function of a person. 2. Calculate the emotional response of a person. 3. Calculate the behavioral response of a person.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Sociology	1. Calculate the social structure of a community. 2. Calculate the cultural values of a society. 3. Calculate the political system of a country.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	History	1. Calculate the historical events of a period. 2. Calculate the historical figures of a period. 3. Calculate the historical impact of a period.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work
	Art	1. Calculate the artistic style of a period. 2. Calculate the artistic figures of a period. 3. Calculate the artistic impact of a period.	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work	1. Quiz	1. Exam	1. Self-reflection	1. Peer-reflection	1. Final exam	1. Project	1. Portfolio	1. Research paper	1. Case study	1. Group work	1. Individual work