VENTURE HIGH SCHOOL

HISTORY/GEOGRAPHY 203

2020-2021

History: Textbook: From Yesterday to Tomorrow

- I. A New Vision of Humanity
- II. European Expansion in the New World
- III. The American Revolution
- IV. Industrialization: an economic and social revolution
- V. Expansion of Imperialism
- VI. Winning of civil rights and freedoms.

Geography: Textbook: Issues and Territories

- I. Heritage City
- II. Industrial regions
- III. Energy-producing regions
- IV. Forest regions
- V. Agricultural territory
- VI. Native territory

Evaluation:

Weekly class assignments, projects, quizzes/tests.

Mid-term Exam

Final Exam in June.

Tutorials available every day

VENTURE HIGH SCHOOL

MATH CURRICULUM

2020-2021

MATH 226

- I. Introduction to Functions
- II. Ratios, Proportions and Percent
- III. Algebra and Exponents
- IV. Equations
- V. Regular Polygons
- VI. Circles
- VII. Solids
- VIII. Statistics

Evaluation:

Weekly assignments

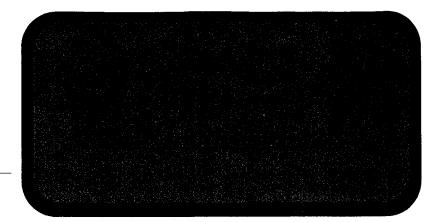
Quizzes/tests

Mid Term Exam in January

Final Board Exam in June

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Topic 1 – Representation of a situation

- · Types of representations of a situation
- Representation of a situation by a graph
- Minimum and maximum values
- · Switching from one type of representation to another

Topic 2 - Ratios and Proportions

- · Rate and unit rate
- Ratios and equivalent rates
- Comparison of ratios and rates
- Proportion and proportional situations
- · Ratio of proportionality
- · Inversely proportional situation
- Solving a proportional situation
- · Percentage of a number
- · Calculating the one hundred per cent

Topic 3 – Algebraic expressions

- Term/coefficient/like terms
- · Constructing an algebraic expression
- Algebraic expressions addition/subtraction
- · Monomials and degree of a monomial
- · Algebraic expressions multiplication/division

Topic 4 – Solving equations

- Equation
- · Solving equations
- · Equivalent equations
- Transforming arithmetic equalities
- Rules for transforming equations
- Solving equations using the balancing equalities method

Topic 5 – Dilatations and Similar Figures

- Dilatation
- · Similar figures
- Ratio of similarity

Topic 6 - Regular Polygons

- · Classification of polygons
- Sum of angles of a polygon
- Exterior angles of a convex polygon
- Apothem of a regular polygon
- Area of a regular polygon and a decomposable polygon

Topic 7 - Circle

- Circle
- Circumference
- · Central angle
- Arc of a circle
- Disk/sector

Topic 8 - Solids

- · Prisms and pyramids
- Polyhedron nets
- · Height
- · Apothem of a regular pyramid
- Area of bases, lateral area and total area of a prism and pyramid
- · Right circular cylinder
- · Lateral or total area of a cylinder
- Area of a decomposable solid
- Finding unknown measurements

Topic 9 - Probability

- Random experiment
- · Enumerating
- · Experimental and theoretical probability
- · Events and types of events
- · Probability of an event
- · Complementary events
- · Compatible and incompatible events
- · Random experiments with or without replacement
- · Dependent and independent events
- · Random experiments with or without order

Topic 10 - Statistics

- Surveys
- Qualitative, discrete and continuous quantitative variables
- Reading bar graphs, broken-line graphs and circle graphs
- Distribution table: frequencies and relative frequencies
- Samples
- · Sampling methods: random, systematic
- · Sources of bias
- Constructing graphs: circle graph

VENTURE HIGH SCHOOL

MATH CURRICULUM

2020-2021

MATH 306 Light

- I. The Real Numbers
- II. Exponents
- III. Polynomials
- IV. Properties of a Function
- V. Introduction to Functions
- VI. Equations and Inequalities
- VII. Solids
- VIII. Area and Volume
- IX. Statistics

Evaluation:

Weekly assignments

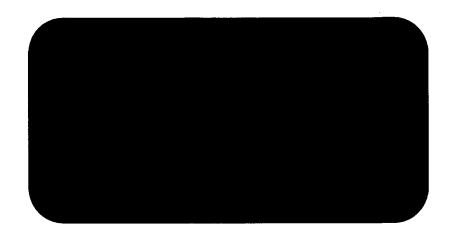
Quizzes/tests

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Topic 1 - Numbers and Pythagorean Theorem

- · Set of numbers
- Measures of the side of a right triangle
- · Exponential notation
- · Laws of exponents
- · Scientific notation

Topic 2 - Algebraic Expressions

- · Algebraic expressions addition/subtraction
- · Algebraic expressions multiplication/division
- Manipulating algebraic expressions
- Solving equations using the balancing equalities method

$Topic\,3-Relations\,and\,\,Functions$

- · Relation, inverse and function
- Independent and dependent variables
- · Types of representation
- Properties of functions in context
- Polynomial function of degree 0 or 1
- · Rate of change
- · Solving first-degree equations in one variable
- Finding the rule of a polynomial function of degree 1
- Modeling a situation using a polynomial function of degree 0 or 1
- · Inverse variation function

Topic 4 – Equations and Inequalities

- · System of equations
- · Constructing a system of equations
- Solving a system of equations: graph, table of values
- Solving a system of equations: method of comparison
- Inequalities
- · Rule for transforming inequalities
- · Solving inequalities

Topic 6 - Area of Solids

- · Right circular cone and sphere
- Decomposable solids
- · Lateralarea and totalarea

Topic 7 – Volume of solids

- · Area and volume
- · Choice of unit of measure for volume
- Capacity
- · Volume of a right prism and cylinder
- · Volume of a right pyramid, cone and ball
- · Volume of a decomposable solid
- · Similar solids
- · Cube root

Topic 8 - Statistics

· Measures of central tendency

Topic 9 - Probability

· Geometric probability