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| Grade 6  2023-24  Course Outline | Phenomenon Based Instruction | |  | |
| Your Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **M a t h T o p i c s a n d L e s s o n s** | Instructor: Mr. Zrinski E-Mail: frankzrinski@antiochschools.net Office: Rooms 504 Office Hours: Please email anytime. | |  | |
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| August 2023  Begin Book 2 Chapter 6 Expressions: 1-Powers-Exponents, 2-Expressions, 3-Variables, 4-Problem Solving, 5-Properties, 6-Distributive, 7-Equivalent, 8-Expressions, 9-21st Century Careers-Engineering; Emphasis on Basic Skills  September 2023  Chapter 7 Equations: 1-Equations, 2-Adding, 3-Subtraction, 4-Multiplication, 5-Dividing, 6-Hands on Equations Project, 7-21st Century Careers-Music  October 2023  Chapter 8 Functions and Inequalities: 1-Function Tables, 2- Function Rules, 3-Functions and Equations, 4-Multiple Representations, 5-Inequalities, 6-Graphing, 7-One step Inequalities, 8- 21st Century Career in Atomospheric Science  November 2023  Chapter 9 Area 1-Parallelograms, 2-Triangles, 3-Trapezoids, 4-Changes in Dimensions-Drawing Diagrams, 5-Polygons on Coordinate Plane, 6- Irregular Object, 7- 21st Century Careers-Build a City or zoo. Community Planning. Build a house.  December 2023  Chapter 10 Volume and Surface Area: 1-Rectangular Prisms, 2-Triangular Prisms, 3-Surface Area, 4-Nets, 5-Nets of Pyramids, 6-21st Century Careers-Interior Designs  January 2024  Chapter 11 Statistical Measures: 1- Mean, 2-Median/Mode, 3-21st Century Marine Biology Chapter 12: Line Plots, 2-Histograms, 3-Box Plots, 4-Graphing and Data Collection, 5-Line Graphs, 21st Century Career: Environmental Science  February 2024  Begin Book 1: Chapter 5: Integers and the Coordinate Plane: 1-Graphing, 2- Absolute Value  March 2024  Chapter 4: Multiply and Divide Fractions: Basic Computations/Review, Estimations  April 2024  Chapter 3: Computing with MultiDigit Numbers: Basic Computations/Review, Show What You Know  May 2024/June 2024  Chapter 2: Fractions, Decimals and Percents: 1-Decimals, Fractions, Models 21st Cen. Career:Movies  Chapter 1 Ratios and Rates: 1-Factors/Multiples 2-Ratios 3-21st Century Career: Chemistry  College and Career Porgram with Cross Curricular Referencing to PBL PROJECTS:  1-College and Career Program Introduction Student Interest Survey and Education and Career Research Project Power Point  2-Steps in Career Planning; Developing Career Success Skills and Qualities for the 21st Century world of work. Industry Certification  3-Entrepreneurship STEM Careers CAL CRN School Link  4-Colleges Community and State Local and Other; Trade School Options; Military Options  5-Skills to Pay the Bills; Develop Action Plans  6-Virtual Field Trips; Vision Boards; Define your own Road in Life  7-Your Life Your Money; Banking Seminar  CTE Pathways Agriculture and Natural Resources  Arts Media and Entertainment  Building and Construction Trades  Business and Finance  Education, Child Development and Family Services  Energy Environment and Utilities  Engineering and Architecture  Fashion and Interior Design  Health Science and Medical Technology  Hospitality Tourism and Recreation  Information and Communication Technologies  Manufacturing and Product Design  Marketing, Sales and Services  Public Services  Transportation |  | **Science Explorations** *Topic 1: Living Things in the Biosphere*  *Topic 2: The Cell System*  *Topic 3: Human Body Systems*  *Topic 4: Introduction to Earth Systems*  *Topic 5: Thermal Energy*  *Topic 6: Weather in the Atmosphere and Ocean*  *Topic 7: Energy and Weather in the Atmosphere and Ocean*  *Topic 8: Climate*  *Topic 9: Reproduction and Growth in Plants and Animals/Inheritance*  *Topic 10: Engineering and Design*  *Project Lead The Way (PLTW): Energy and the Environment*  *Aeronautics*  *Art and Science Integration: Watercolors*  *Energy and Material Resources Fossil Fuels, Renewable energy sources; Solar Ovens*  Evaluation  TESTS QUIZZES PROJECTS LABS 50%  CLASSWORK and HOMEWORK 50%    AUGUST  SEPTEMBER  OCTOBER  NOVEMBER  DECEMBER  JANUARY  FEBRUARY  MARCH  APRIL  MAY  JUNE |