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| Grade 6 2023-24Course 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. ZrinskiE-Mail: frankzrinski@antiochschools.netOffice: Rooms 504Office Hours: Please email anytime. |  |
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| August 2023Begin 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 SkillsSeptember 2023Chapter 7 Equations: 1-Equations, 2-Adding, 3-Subtraction, 4-Multiplication, 5-Dividing, 6-Hands on Equations Project, 7-21st Century Careers-MusicOctober 2023Chapter 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 ScienceNovember 2023Chapter 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 2023Chapter 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 DesignsJanuary 2024Chapter 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 ScienceFebruary 2024Begin Book 1: Chapter 5: Integers and the Coordinate Plane: 1-Graphing, 2- Absolute ValueMarch 2024Chapter 4: Multiply and Divide Fractions: Basic Computations/Review, EstimationsApril 2024Chapter 3: Computing with MultiDigit Numbers: Basic Computations/Review, Show What You KnowMay 2024/June 2024Chapter 2: Fractions, Decimals and Percents: 1-Decimals, Fractions, Models 21st Cen. Career:MoviesChapter 1 Ratios and Rates: 1-Factors/Multiples 2-Ratios 3-21st Century Career: ChemistryCollege 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 Point2-Steps in Career Planning; Developing Career Success Skills and Qualities for the 21st Century world of work. Industry Certification3-Entrepreneurship STEM Careers CAL CRN School Link 4-Colleges Community and State Local and Other; Trade School Options; Military Options5-Skills to Pay the Bills; Develop Action Plans6-Virtual Field Trips; Vision Boards; Define your own Road in Life7-Your Life Your Money; Banking SeminarCTE Pathways Agriculture and Natural ResourcesArts Media and EntertainmentBuilding and Construction TradesBusiness and FinanceEducation, Child Development and Family ServicesEnergy Environment and UtilitiesEngineering and ArchitectureFashion and Interior DesignHealth Science and Medical TechnologyHospitality Tourism and RecreationInformation and Communication TechnologiesManufacturing and Product DesignMarketing, Sales and ServicesPublic ServicesTransportation |  | **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*EvaluationTESTS QUIZZES PROJECTS LABS 50% CLASSWORK and HOMEWORK 50% AUGUSTSEPTEMBEROCTOBERNOVEMBERDECEMBERJANUARYFEBRUARYMARCHAPRILMAYJUNE |