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|  | *Fairfield Ludlowe High School - Fairfield Warde High School* **ENVIRONMENTAL EARTH SCIENCE 10** |
| Insert Teacher Name | Insert Room Number |
| Full Year | Insert Period |
| Insert Email Address |
| COURSE DESCRIPTION |
| This is the grade 9 science course. This laboratory-based course will provide students with a solid foundation in science inquiry skills and environmental earth science concepts. Scientific inquiry is used throughout the course to engage students in investigating and applying the following concepts: atoms and atomic structure, electricity, energy sources and transformations, rocks, minerals and plate tectonics, renewable and non-renewable resources, alternative energy resources, polymers and their uses, sources and impacts of pollution and preservation of our Earth. Students enroll in either Biology 21 or Biology 22 in grade 10.  |
| COURSE OBJECTIVES |
|  Students will understand that:* atoms react with one another to form new molecules.
* the electrical force is a universal force that exists between any two charged objects.
* energy cannot be created or destroyed; however, energy can be converted from one form to another.
* various sources of energy are used by humans and all have advantages and disadvantages
* elements on Earth move among reservoirs in the solid earth, oceans, atmosphere and organisms as part of biogeochemical cycles.
* due to its unique chemical structure, carbon forms many organic and inorganic compounds.
* chemical technologies present both risks and benefits to the health and well being of humans, plants and animals.
* some materials can be recycled, but others accumulate in the environment and may affect the balance of the Earth systems.
* the use of resources by human populations may affect the quality of the environment.
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| UNITS OF STUDY |
| * Measurement / Scientific Problem Solving
* Understanding the Periodic Table
* Electricity & Magnetism
* Energy Sources and Transformations
* Rocks, Minerals and Nonrenewable Energy Sources
* Polymer Use and Solid Waste Management
* Air Quality & Climate Change
* Renewable Resources
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| COURSE POLICIES AND REQUIREMENTS |
|  GRADING |
|  | Summative Assessments: | 80%Insert Categories/Weighting (ie. Papers – 30%) |
|  | Formative Assessments: | 20%Insert Categories/Weighting (ie. Quizzes – 50%) |
|  | Behavioral Characteristics: | 0%  |
|  | Insert Additional Grading Information Here |
|  MATERIALS |
|  | Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters) |
|  EXPECTATIONS OF STUDENTS |
|  | Insert Course Expectations Here |
|  EXTRA HELP |
|  | Insert Course Expectations Here |
| Insert Additional Information Here |