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| Desired Results for:  CLIMATE grade 8  Earth has a variety of climates defined by average temperature, precipitation, humidity, air pressure, and wind that have changed over time in a particular location | |
| Essential Understanding:  Students will be able to independently use their learning to . . .  Accurately predict and compare the climates of varied locations in terms of key climate-determining factors. | |
| Understandings:  Students will understand .   1. Develop, communicate and justify an evidence-based scientific explanation to account for Earth’s different climates (DOK 1-3) 2. Research and evaluate direct and indirect evidence to explain how climates vary from one location to another on Earth (DOK 2-3) 3. Examine, evaluate, and question information from a variety of sources and media to investigate how climates vary from one location to another on Earth (DOK 2-3) | Essential Questions:   1. How does the climate in one area compare and contrast with another area? 2. Why are there different climates on Earth? 3. How has Earth’s climate changed over time? 4. What evidence supports and/or contradicts human influence on climate change? 5. What is the difference between weather and climate? |
| Essential Vocabulary: | |
| Resultant Knowledge:  Students will know…  Causes of wind and weather patterns.  • Factors affecting climate.  • Causes of the Coriolis effect.  • How events in one geographical area affect another.  • How climate affects agriculture.  AND how these factors affect the long term climate | Resultant Skills:  Students will be able to interprt . . .   1. Data tables, charts, and graphs allow people to compare and contrast various climates around the globe. 2. Computer models help people understand past, present, and future climates. |
| Stage 2 – Assessment Evidence | |
| Performance tasks.  Accurately interpret a weather map  Interpret historical data on weather change | Other Evidence.   * Summative assessments * Formative Assessment * Final Project |
| Stage 3 Learning Plan | |
| Activities   1. Ask testable questions and make a falsifiable hypothesis about earth’s climate and use an inquiry based approach to find an answer. (DOK 1-4) 2. Describe various techniques that scientists use to study climate, and suggest ways that each technique can be used to better understand various climates and changes in climate. (DOK 1-2) | |
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| Specifics | |
| Labs  Using GO 3 wether station | |
| Specific Activities | |
| Lessons/homework | |
| Notes | |
| Pre Assessments  Pre test on  **Inquiry Questions:**   1. How does the climate in one area compare and contrast with another area? 2. Why are there different climates on Earth? 3. How has Earth’s climate changed over time? 4. What evidence supports and/or contradicts human influence on climate change? 5. What is the difference between weather and climate? | |