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| **Lesson Name:** | **The Governor’s Cabinet** |
| **Grade Level(s):** | 11th grade Physical Science |
| **Goal/Objective(s):** | Students will be able to defend a proposed solution to a real world problem. |
| **Standard(s):** | **Science Standards**  **S.HS.ETS.1** – analyze a major global challenge to specify qualitative and quantitative criteria and constraints for solutions that account for societal needs and wants.  **S.HS.ETS.2** – design a solution to a complex real-world problem by breaking it down into smaller, more manageable problems that can be solved through engineering.  **S.HS.ETS.3** – evaluate a solution to a complex real-world problem based on prioritized criteria and trade-offs that account for a range of constraints, including cost, safety, reliability, and aesthetics, as well as possible social, cultural, and environmental impacts.  **School Counseling - Student Success Standards**  **ALP.SS.1.1.7** demonstrate the ability to work independently or collaboratively in various learning environments  **ALP.SS.2.1.7** model expected workplace dispositions, skills, and behaviors in school, community, and occupational experiences to prepare for career success. |
| **Instructions:** | * Divide students into small groups * Give each group an alternative energy method   + Solar   + Wind   + Hydro   + Nuclear * Have students research about the business and logistics of running an entire corporation of their fuel source in WV to replace current coal power plants. (see group planning rubric) * Students will evaluate the cost, safety, and environmental impacts of their group’s fuel source. * Students will address social and cultural concerns of the state of WV by changing to such a fuel source. * Students will align what jobs may line up from current coal companies and power plants to the new power plant using CFWV.com career profiles. * Students will need to apply the training necessary to help the workers transpose careers. (using the CFWV career profiles) * Students will take all their researched information and create an alternative energy PowerPoint or Prezi presentation to sell their proposal to the governor. (see PowerPoint rubric) * As a group students will present their alternative energy proposal to the class. (see Oral Presentation Rubric) |
| **Materials:** | [www.cfwv.com](http://www.cfwv.com)  Microsoft PowerPoint or Prezi  Group planning rubric  PowerPoint/Prezi Rubric  Oral Presentation Rubric |
| **CFWV Tools Used:** | Career Profiles |
| **Assessment** | Group Planning Rubric  PowerPoint Rubric  Oral Presentation Rubric |