

ENERGY SOURCES CHOICE BOARD

Directions: Choose three projects to complete. You must choose three in a row top to bottom, side to side, or diagonal.

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| <p>1. <u>Prepare a news report</u> Your city is thinking about changing from fossil fuels to another course of energy. Which alternative source would be the best? Why? Include the advantages and disadvantages of your choice in your news report.</p> | <p>2. <u>Construct a model</u> Design a working model that shows how wind energy can be converted into electrical energy.</p> | <p>3. <u>Prepare a Report</u> Research common alternate energy sources. Which of these are most commonly used in your state? Explain why this may be most common. Present all of the information gathered in a report.</p> |
| <p>4. <u>Create a Crossword Puzzle</u> Think about all of the different types of energy sources. Create a crossword puzzle containing the significant vocabulary words related to the different types of energy sources.</p> | <p>5. <u>Create a Flow Map</u> Think about the path that energy must take in order to become the light energy in your room. Trace how the energy transforms from its source (fossil fuel, nuclear, wind, water, geothermal) all the way to you bedroom light.</p> | <p>6. <u>Make a Poster</u> Make a poster that shows how a nuclear power plant transforms energy.</p> |
| <p>7. <u>Create a Demonstration</u> Hydroelectric plants create energy by using the energy in running water. Create a demonstration for the class that shows how a hydroelectric plant creates energy.</p> | <p>8. <u>Design a Mobil</u> Make a mobile about the different energy sources. Include advantages and disadvantages for each type.</p> | <p>9. <u>Write a Paper</u> Get ready for a debate. Which energy source would you prefer in your neighborhood: wind, solar, or nuclear? Write a paper with your decision. Be sure and think about costs, space, and dangers.</p> |

ENERGY SOURCES CHOICE BOARD RUBRIC

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| <p>1. <u>Prepare a news report</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • Must address the who, what, where, when, why, and how of the topic • Script of the report turned in with project • Must be performed either live or on tape | <p>2. <u>Construct a model</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • Parts of the model must be labeled • Must include a title card • A description of the limitations of the model must be included | <p>3. <u>Prepare a Report</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • Most common alternate source included • At least two reasons why this may be common are discussed • Paragraphs are neatly written with few spelling and grammar mistakes. |
| <p>4. <u>Create a Crossword Puzzle</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • At least 15 significant words or phrases should be included • Appropriate clues are developed • Include puzzle and answer key | <p>5. <u>Create a Flow Map</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • Thinking map is contained on 8 1/2 X 11 sheet of paper • Boxes are neatly drawn and words are neatly written • Map follows correct sequence of steps | <p>6. <u>Make a Poster</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • May either be the size of a standard poster board or be created with Glogster • Includes all key features of nuclear power plant • Flow of energy is shown with explanation. |
| <p>7. <u>Create a Demonstration</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • A script of the demonstration must be included • Demonstration must be performed live or on tape. • Demonstration must include names of the parts and a description of what is being shown. | <p>8. <u>Design a Mobil</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • At least 10 pieces of related information • Includes color, pictures, and descriptions • Has at least three layers of hanging information and hangs in a balanced way. | <p>9. <u>Write a Paper</u> <u>30 Points</u></p> <ul style="list-style-type: none"> • Paper is neat and has few spelling or grammar mistakes. • Preferred energy source is stated. • At least three reasons are provided for energy preference. |