

Name:

### Emergency Energy Preparedness Checklist Recommendations

| Need           | If the need can be met by an energy item on the list and it's the best choice, name the item. | If the need can be met by an energy item on the list BUT it's NOT the best choice, suggest a new item. | If the need cannot be met by an item on the list, suggest a new energy resource. | Chemical property of the item that makes it useful to meet the need | Justify why this resource is the best choice using scientific reasoning and / or data from your experimentation.  |
|----------------|---|--|--|---|---|
| Example: Light | Candle  |  |  | Candle wax is a hydrocarbon fuel.                                   | The candle that we burned lost very little mass with time, compared to other fuels. This means that we would have sufficient light for a long time from a small item. Since the candle runs on a combustion reaction, it would also provide a small amount of heat. |
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### Emergency preparedness checklist justification checklist:

**I can:**

- Identify five significant energy needs
- Select a logical energy resource to meet the needs
- Correctly describe the chemical property of the resource that makes it suitable to meet the need.
- Justify the selection of the item with correct scientific reasoning or with data from experimentation.

| Proficiency Level      | Descriptor   |
|------------------------|--|
| Highly Proficient<br>4 | <ul style="list-style-type: none"><li>- Identify the five most significant energy needs</li><li>- Select the most suitable energy resource to meet the needs</li><li>- Correctly describe the chemical property of the resource that makes it suitable to meet the need.</li><li>- Justify the selection of the item with complete, correct scientific reasoning and with data from experimentation.</li></ul> |
| Proficient<br>3        | <ul style="list-style-type: none"><li>- Identify five significant energy needs</li><li>- Select a logical energy resource to meet the needs</li><li>- Correctly state the chemical property of the resource that makes it suitable to meet the need.</li><li>- Justify the selection of the item with correct scientific reasoning or with data from experimentation.</li></ul>                                |
| Nearly Proficient<br>2 | <ul style="list-style-type: none"><li>- Identify three significant energy needs</li><li>- Select an energy resource to meet the needs</li><li>- State a chemical property of the resource, though the property may not make it a good fit to meet the need.</li><li>- Justify the selection of the item with scientific reasoning or with data from experimentation.</li></ul>                                 |
| Developing<br>1        | <ul style="list-style-type: none"><li>- Identify three energy needs</li><li>- Select an energy resource to meet the needs, though the selection may not necessarily meet the need.</li><li>- State a chemical property of the resource, with error.</li><li>- Attempt to justify the selection of the item with scientific reasoning or with data from experimentation.</li></ul>                              |