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| CHEMISTRY | CODE: SCS22B |
| 2014-2015 SCHOOL YEAR | INSTRUCTOR: Ms. Bui |
| CLASSROOM: 510 | LAB ROOM: 506 |

**CHEMICAL BOND**

**ENERGY**

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| Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Subject: Chemistry |

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| **SCIENCE STARTER:****Instructions: Choose the best answer**1. You want to make a cup of hot tea. What happens to the energy when the water is heated?2. Your friend wants a cup of iced tea. What happens to the energy when ice is added to a cup of hot tea? |

***Instructions: Do the simulation related to each picture. Complete the table below the following energy systems.***



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| --- | --- | --- | --- |
| **energy form** | **original** | **transformed into/ transferred to** | **result** |
|  | from the girl’s digestion | transformed into mechanical energy | moves her legs |
|  | from the legs | transferred to mechanical energy | moves the wheels  |
|  | from the wheels | transformed to electrical energy | heats the wire inside the bulb |
|  | from the wire | transformed to light energy | radiates out into the room. |



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| --- | --- | --- | --- |
| **energy form** | **original** | **transformed into/ transferred to** | **result** |
|  | from the burner | transferred into thermal energy | heats the water to steam |
|  | from the steam | transformed to mechanical energy | moves the wheel  |
|  | from the wheel | transformed to electrical energy | heats the wire inside the bulb |
|  | from the wire | transferred to electrical energy | heats the burner |
|  | from the burner | transferred into thermal energy | heat the water |



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| --- | --- | --- | --- |
| **energy form** | **original** | **transformed into/ transferred to** | **result** |
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**Extension**



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| **energy form** | **original** | **transformed into/transformed to** | **result** |
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**AIM Prompt: Of the energy systems in the simulation, what is the best energy system to melt ice for washing? Use RACE (a paragraph of at least 3 sentences). State your claim and provide evidence.**

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