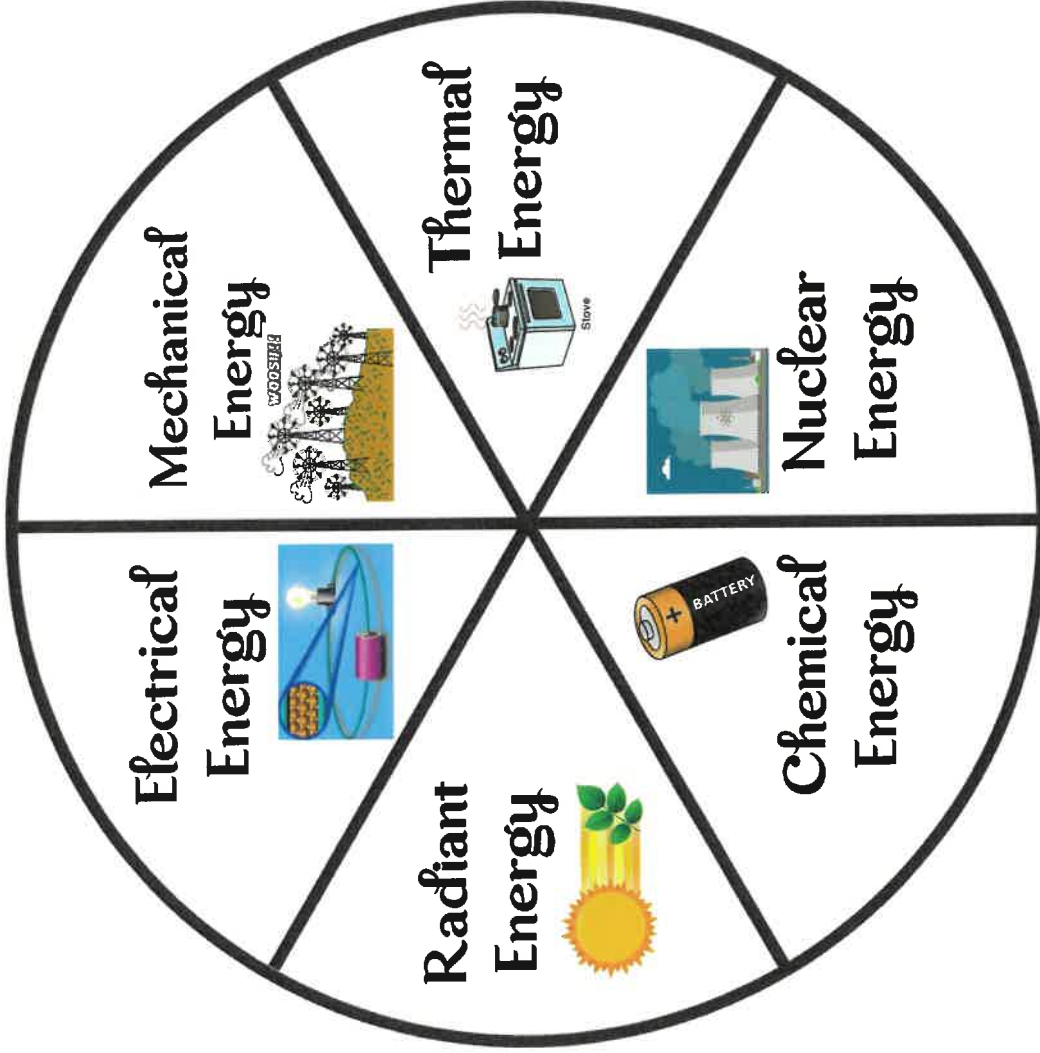


## Game Directions

1. Number of Players: 3 to 5 per group.
2. Decide who will serve as the Answer Checker. The Answer Checker will hold the answer key and check the players energy selections.
3. The Transformer Cards are stacked, shuffled, and placed face-down on the table.
4. Determine which player will go first.
5. The first player turns over a Transformer Card, then takes the Energy Selector and moves the "input energy" selector (start of the arrow) to the starting form of energy, and the "energy output" selector (end of the arrow) to the energy being formed in the transformation. Note that for some of the transformations, there may be more than 1 possible energy output. The player only needs to select one of them.

Note: Don't count "Thermal" as an energy output unless it is the main energy being produced. Some thermal energy is always created during most energy transformations.

6. The player shows his selection to the other players and the Answer Checker. They announce if the player is correct or incorrect.
7. If the player is correct, they take the Transformer Card. If the player is incorrect, they hand the Energy Selector to the next player, and they attempt to select the right transformation.
8. When the correct transformation is given and the correct player takes the Transformer Card. The next player turns over the next Transformer Card in the stack and play continues.
9. When all Transformer Cards have been won, whoever has the most wins!



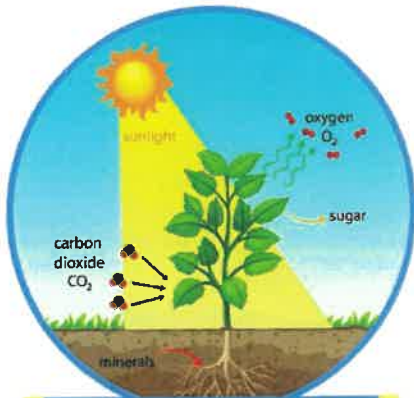
## Transformers of Energy Spinner Activity

DIRECTIONS:

1. Spin the spinner. Write the name of the STARTING energy in the chart below.
2. Spin the spinner again. Write the name of the ENDING energy in the chart below.
3. Look through the pictures on your table. Determine the item/activity that matches your starting and ending energies. Write the name of the item/activity in the chart below.

## SPINNER GAME ANSWERS:

[illegible]



**PHOTOSYNTHESIS**



**Speaker**



**Solar Panels**



**Fan**



**Clothes Iron**



**Gas Powered Car**



**Electric Powered Car**



**Batteries**





**Digesting Food**



**TV**



**Wind Turbine**



**Gas Stove**



**Lightning**



**Clapping**



**Light Bulb**



**Steam**



**Charging Cellphone**



**Burning Wood**



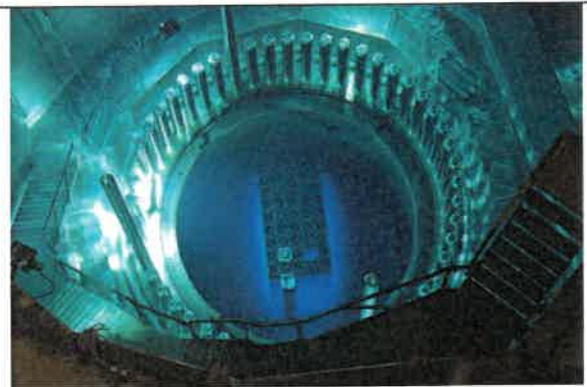
**Rubbing Hands  
Together**



**Rocket**



**Sun**

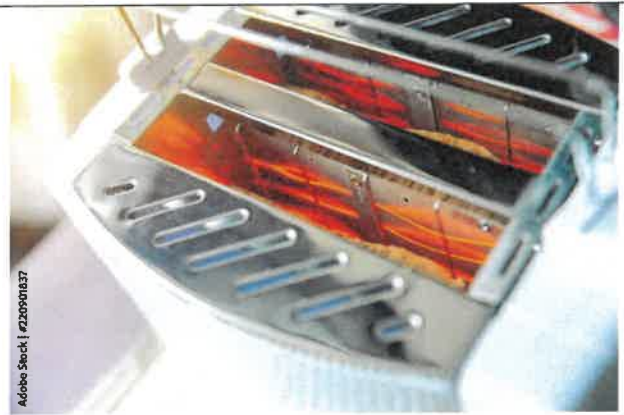


**Nuclear Reactor**





**Playing guitar**



**Toaster**



**Flashlight**



**Running**



**Power Generator**



**Geothermal Power Station**



**Electric Mixer**



**Sparklers**



**Hair Dryer**



**Curling Iron**