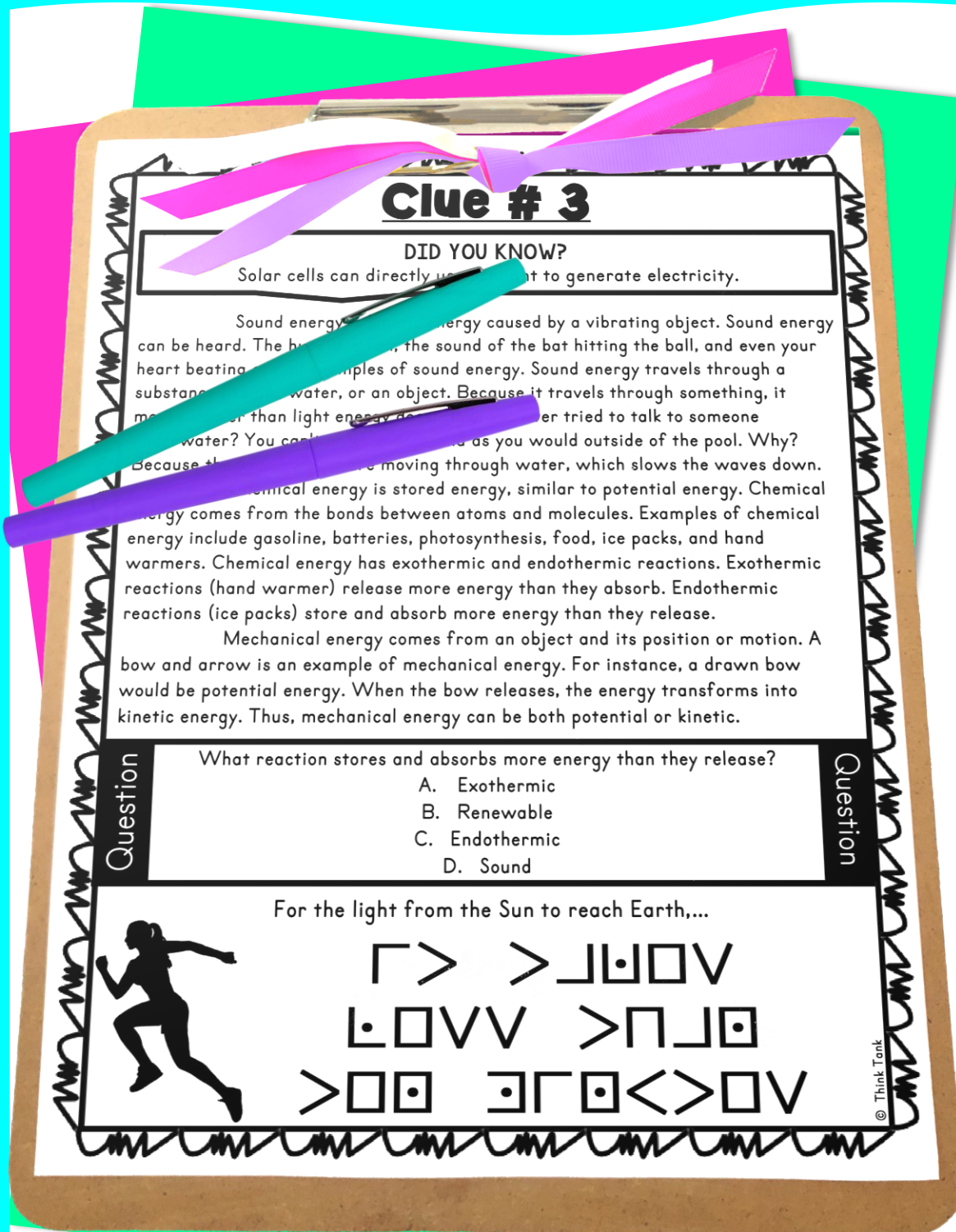


PRINT & GO!



1

READ THE
PASSAGE

2

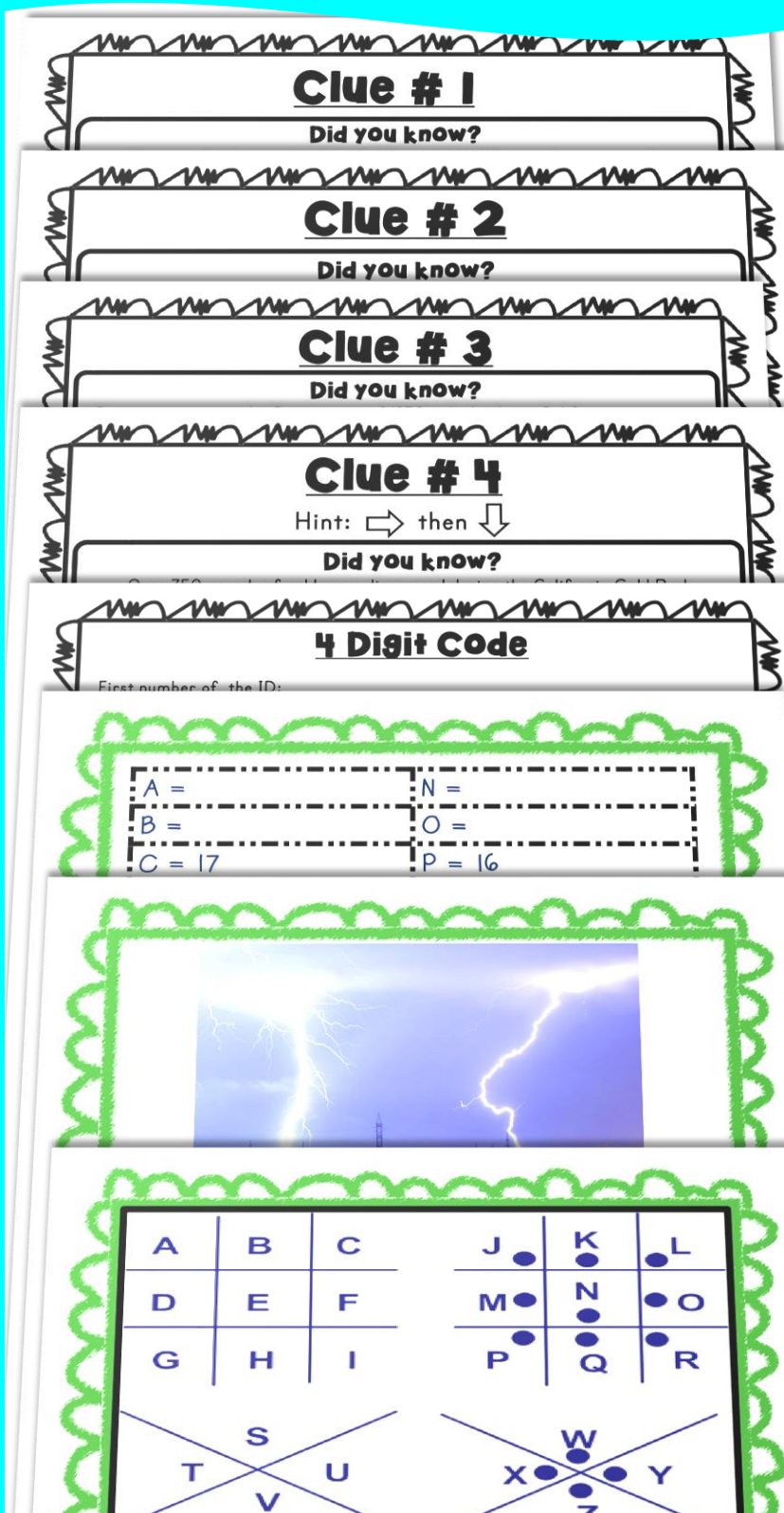
ANSWER
QUESTIONS

3

DECODE
PUZZLES

WHAT'S INCLUDED?

- ✓ 4 Half Page Passages
- ✓ 4 Puzzle Decoders
- ✓ Differentiated Version
- ✓ Completion Signs
- ✓ 10 Multiple Choice
- ✓ Teacher Answer Key
- ✓ Teacher Guide
- ✓ Puzzle Hints



4 PASSAGES

Clue # 1

DID YOU KNOW?

The word kinetic comes from the Greek word "kinesis" which means motion. How do things move? How do things grow? How does a machine work? The answer: ENERGY. Energy is the ability to do work. For instance, energy is required to cook food, jump over a puddle, or drive a car.

There are many types of energy, however, they fall into two major categories: potential and kinetic energy. Potential energy is stored energy. A spring, a stick of dynamite, and a Jenga tower are examples of potential energy. Additionally, a rollercoaster stores potential energy as it climbs a hill. As the rollercoaster falls down the hill or the Jenga tower falls, potential energy turns into kinetic energy. Examples of kinetic energy include:

Clue # 3

DID YOU KNOW?

Solar cells can directly use sunlight to generate electricity. Sound energy is kinetic energy caused by a vibrating object. Sound energy can be heard. The hum of a fan, the sound of the bat hitting the ball, and even your heart beating are all examples of sound energy. Sound energy travels through a substance like air, water, or an object. Because it travels through something, it moves slower than light energy does. Have you ever tried to talk to someone underwater? You can't quite understand as you would outside of the pool. Why?

Because the sound waves are moving through water, which slows the waves down. Chemical energy is stored energy, similar to potential energy. Examples of chemical energy come from the bonds between atoms and molecules. Exothermic reactions (hand warmers, batteries, photosynthesis, food, ice packs, and hand warmers. Chemical energy has exothermic and endothermic reactions. Exothermic reactions (ice packs) release more energy than they absorb. Endothermic reactions (ice packs) absorb more energy than they release.

Energy comes from an object and its position or motion. A bow and arrow is an example of mechanical energy. For instance, a drawn bow stores potential energy. When the bow releases, the energy transforms into kinetic energy. What reaction stores and uses energy?

- What reaction stores and uses energy?
- A. Exothermic
 - B. Renewable
 - C. Endothermic
 - D. Sound

For the light from the Sun to reach Earth,...

Clue # 2

DID YOU KNOW?

Electrical energy is generated by the movement of electrons. Every single day. Some examples include flipping on lights in the house, watching television, playing computer games, and charging a cell phone. Particles and electrons move from one atom to another, creating electrical energy. The sun, wind, coal, and even animal poop can be converted into electrical energy. You can see electrical energy in nature in the form of lightning during a storm.

Heat energy, also called thermal energy, comes from the sun. With energy, molecules with varying temperatures interact. Like fuels, the energy can be generated from other sources.

Clue # 4

Hint: ➡ then ⬇

DID YOU KNOW?

Water is the most commonly used source of renewable energy. Nuclear energy is a form of potential energy found within the nucleus of an atom. As potential nuclear energy releases, thermal energy is produced. In turn, thermal energy heats water, generates steam, turns turbines, and produces electricity. Uranium is a rare metal commonly used for nuclear energy production. The United States produces more nuclear energy than any other country.

Gravitational energy refers to potential energy, energy that is stored. Usually, the sun and sun have gravitational energy. Gravitational energy converts into kinetic energy when objects fall toward each other. The greater the mass, the more kinetic energy depending on how far it falls. If it falls from someone's head, a water balloon varies impact than falling from the roof of a house.

Renewable energy can be replenished or used again. Once energy is used, it can be produced. Common types of renewable energy include wind, solar, and hydro. Conserving energy is essential to save the resources we have. An important first step is to turn lights and equipment off when not in use. Also, purchasing energy-efficient appliances for your home can help save energy and money.

What country produces the most nuclear energy?

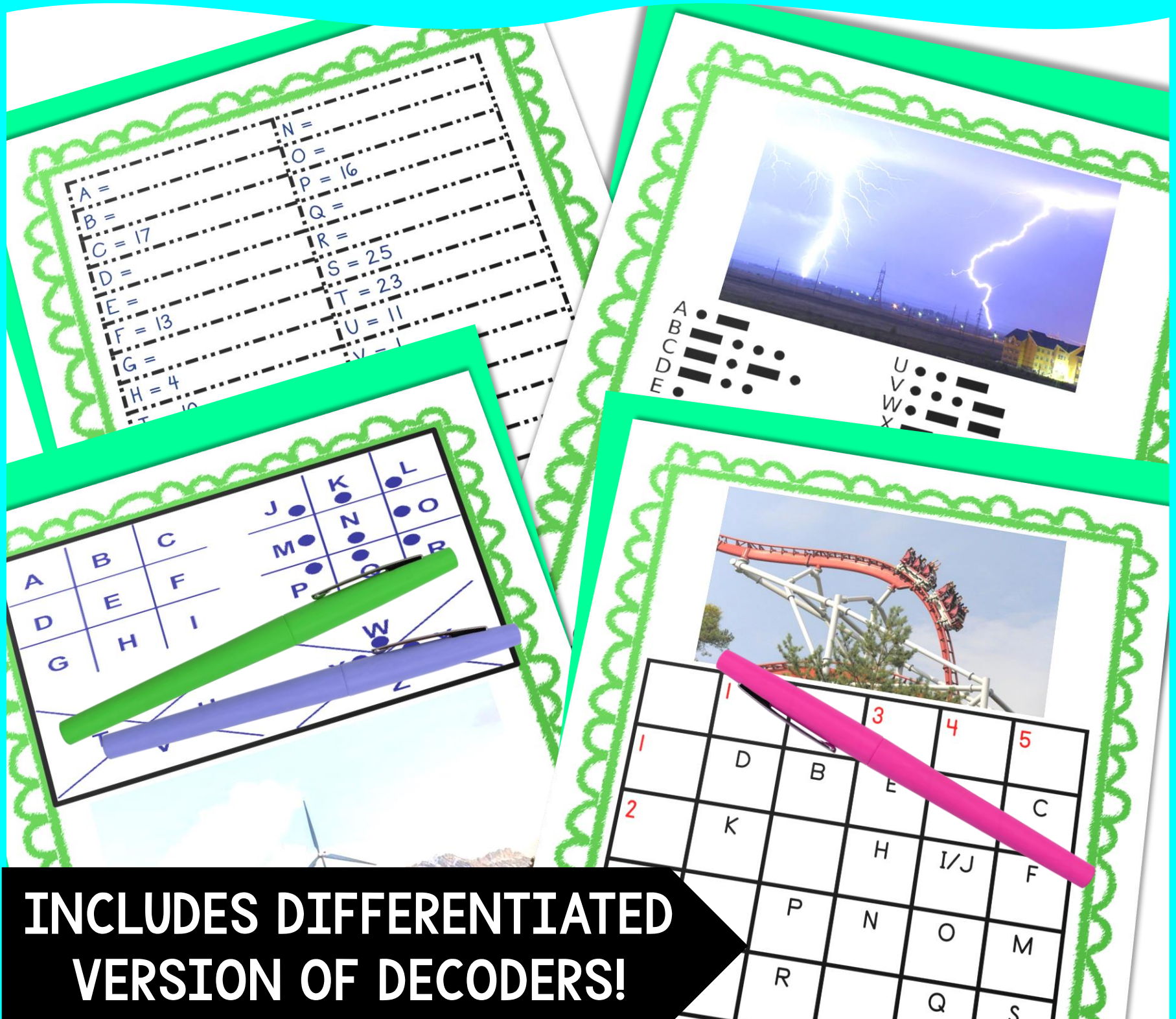
- A. China
- B. Russia
- C. United States
- D. Mexico

The amount of our total energy that comes from a renewable source ...

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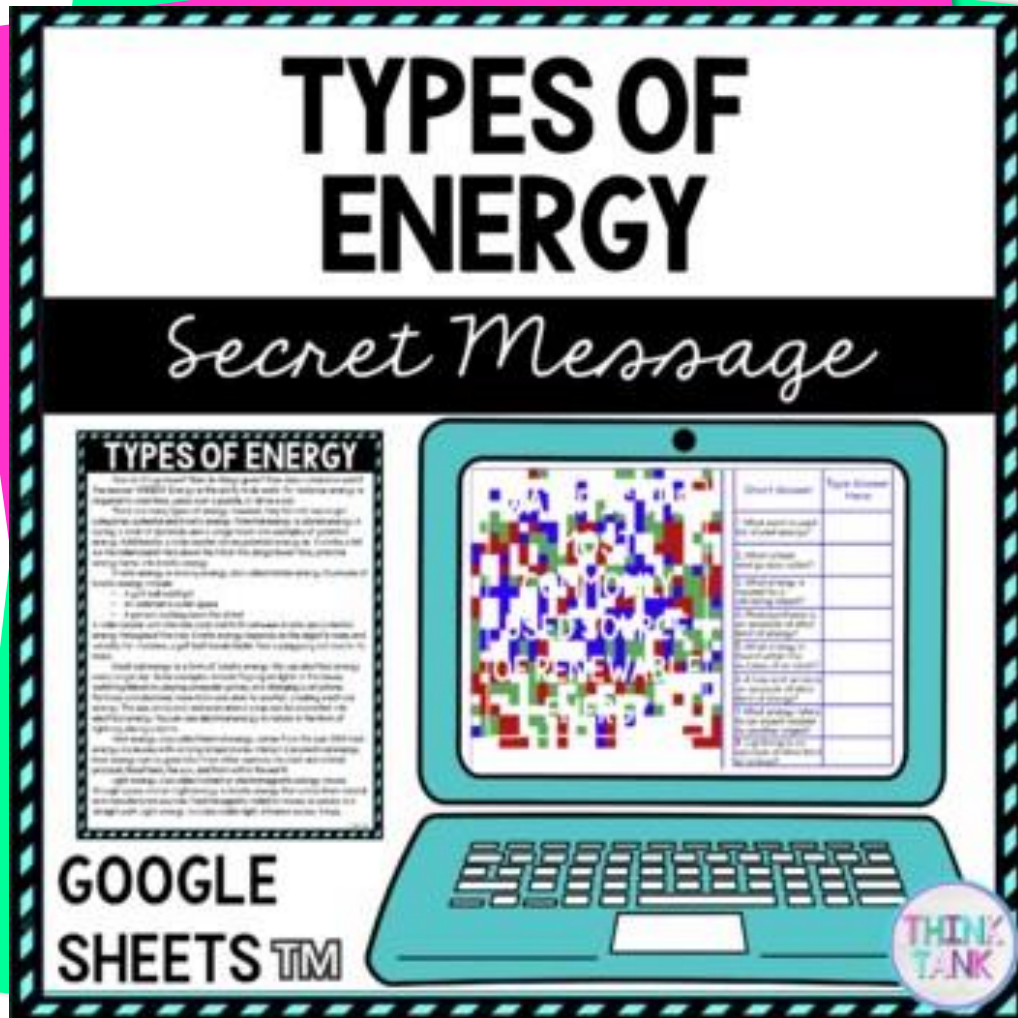
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4 DECODERS



**INCLUDES DIFFERENTIATED
VERSION OF DECODERS!**

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Have some digital fun with this Types of Energy Secret Message Activity for Google Sheets™. Students will read a non-fiction passage and answer questions. Correct answers will begin to reveal the secret message!