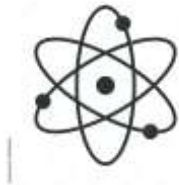


1STI2D

RENEWABLE ENERGY

I. RENEWABLE OR NOT?

a. Write the name of the following sources of energy and say whether they are renewable or nonrenewable.



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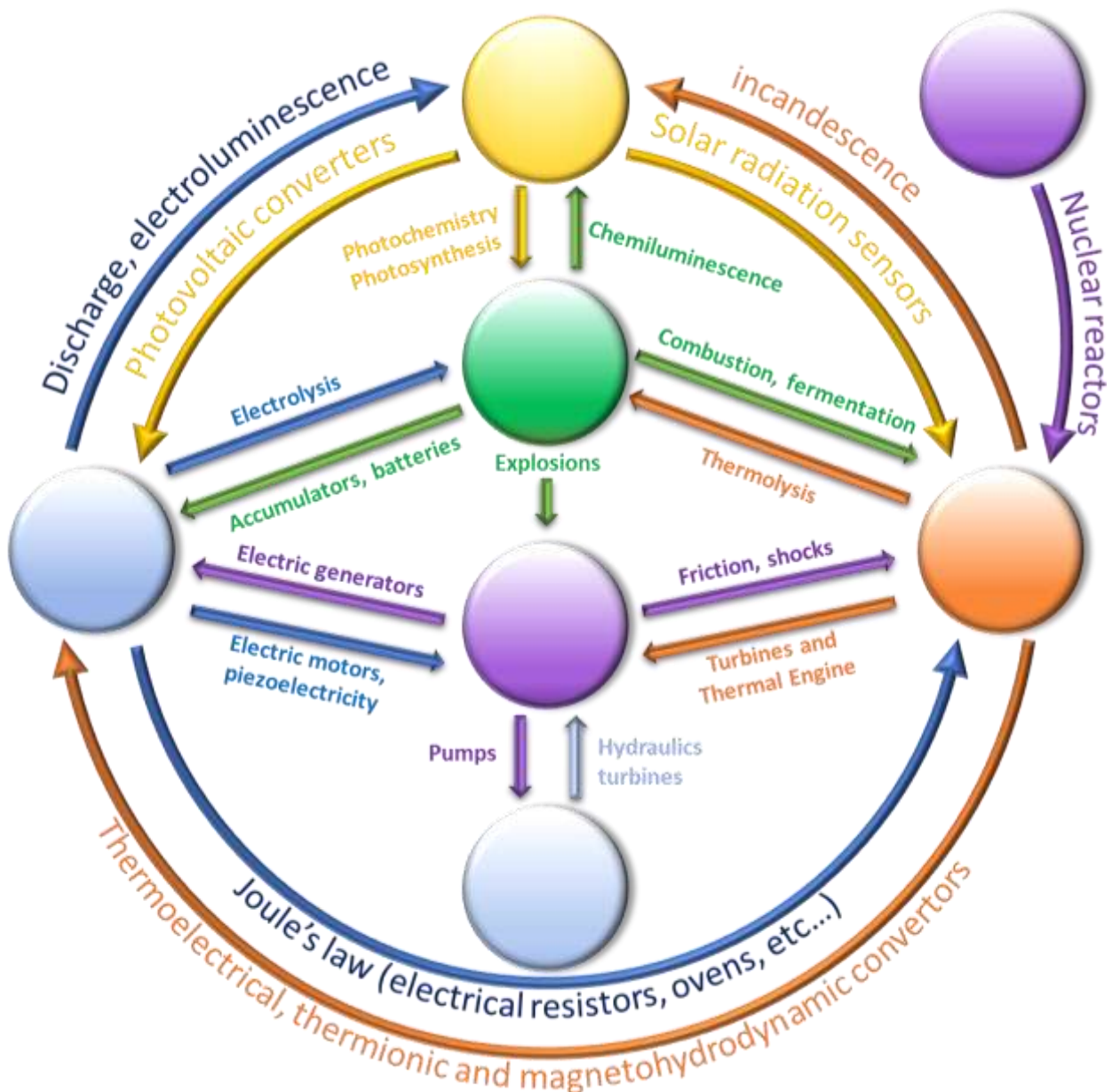
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c. Energy cycle: in each circle, write the corresponding type of energy.



b. Vocabulary

Renewable	•	•	Something that can continue for a long time without harming people, the environment, or future generations.
Non-renewable	•	•	Energy that does not create much pollution and is safe for the environment, like solar or wind power.
Sustainable	•	•	A resource or energy source that cannot be quickly replaced and will eventually run out, like coal, oil, or gas.
Clean energy	•	•	Harmful substances that make air, water, or land dirty and unsafe.
Expensive	•	•	Energy that produces only a small amount of carbon dioxide (CO ₂)
Pollution	•	•	Something that costs a lot of money to buy or use.
Low-carbon energy	•	•	A resource or energy source that can be naturally replaced and will not run out, like sunlight or wind.
High-carbon energy	•	•	Energy that produces a large amount of carbon dioxide (CO ₂)

II. WHAT IS RENEWABLE ENERGY?

LOOK AT THE VIDEO “1. What is renewable energy” AND ANSWER THE QUESTIONS.

1. Definition

a. Define “renewable energy” with your own words.

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b. What is the main difference between renewable and fossil fuels?

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c. Why is renewable energy considered important for combating climate change?

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d. What are some environmental concerns associated with renewable energy infrastructure?

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e. How might renewable energy impact the economy and consumers?

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f. What is the goal of reaching Net Zero in terms of carbon emissions?

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TASK 1: *Pairwork*. You are advisors helping the government decide which energy source to invest in. One of you is for renewable energy and the other is for nonrenewable energy.
Roleplay a conversation around this subject. (2 hours of preparation)

2. An example: Watch both videos about Geothermal energy and answer the following questions.

a. What is geothermal energy?

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b. Where are geothermal resources most commonly found?

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c. What are the different power plants for exploiting geothermal power and what are the differences between them?

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d. What are some environmental benefits of geothermal energy?

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e. How can geothermal energy help recycle wastewater?

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f. What valuable materials can be obtained from solid waste produced by geothermal plants?

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g. What are the main disadvantages associated with geothermal energy?

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h. Why is geothermal energy considered a renewable resource?

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