

Name:	Gr. & Sec.:	Date:
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Reminder: Watch the Lecture Video first before you can proceed in answering the worksheet.

Note: The deadline of submission of this worksheet is on March 10, 2023, 12:00 a.m

WORKSHEET # 5: GEOTHERMAL ENERGY

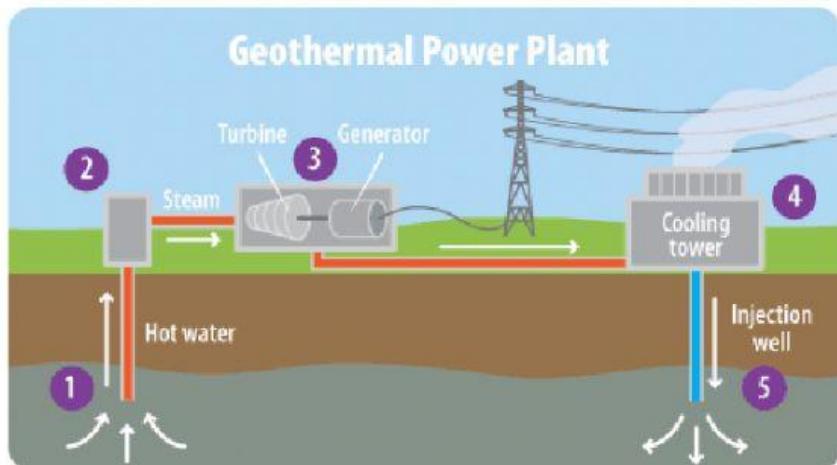
ACTIVITY 1: THUMBS UP OR THUMBS DOWN

Read the statements below write **TRUE** if the statement is true or correct and **FALSE** if the statement is false or incorrect.

1. High temperature inside the Earth turns different materials in the mantle to partially melt and can be used as source of energy.
2. Energy that comes from the heat inside the Earth is called Geothermal energy.
3. Geothermal energy converts heat to electricity using conventional and supercritical system.
4. Conventional Geothermal energy uses steam/heat produced from molten materials and water from the underground.
5. Supercritical system utilizes steam from geysers and hot-pressure depths of the Earth.

ACTIVITY 3: FILL IN THE PROCESS

Arrange the step-by-step process of converting geothermal energy to electrical energy. Choose your answers below and write the corresponding letter to the numbered boxes.



1.	2.	3.
4	5	

- A. The steam cools off in a cooling tower and condenses back to water.
- B. When the water reaches the surface, the pressure is dropped, which causes the water to turn into steam.
- C. The cooled water is pumped back into the Earth to begin the process again.
- D. Hot water is pumped from deep underground through a well high pressure.
- E. The steam spins the turbine, which is connected to the generator that produces electricity.

