

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

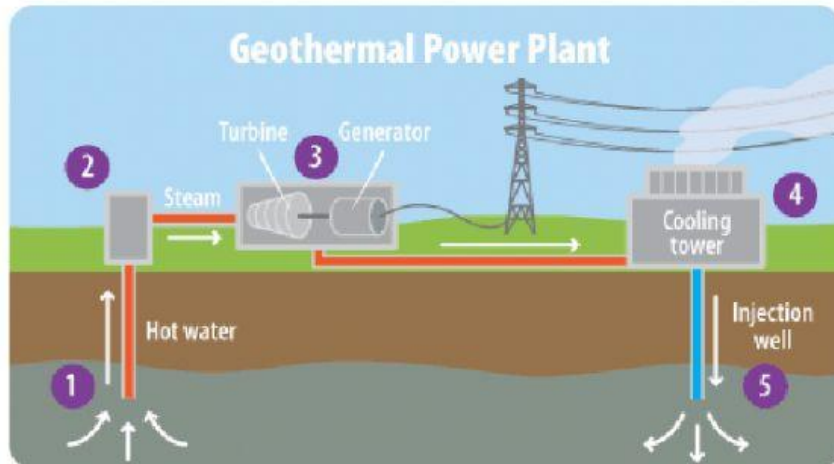
### ACTIVITY 1: THUMBS UP OR THUMBS DOWN

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.

