Templated Game

Carnival Game: Groundwater Flow

Directions: Answer the multiple choice questions.

Questions

 Which statement is true about groundwater? Groundwater is in constant motion. Groundwater is buried too deep to be part of Earth's water cycle. Groundwater is relatively young, especially very deep groundwater. Groundwater is recharged by water from deep within the mantle.

2. Groundwater flows from areas of high pressure to areas of low pressure low pressure to areas of high pressure a low-elevation water table to a high-elevation water table low-elevation streams to high-elevation hills

3. The difference in elevation between parts of the water table is the artesian well confining bed hydraulic head zone of aeration

4. The water in a geyser is warmed by molten rock hot igneous rocks solar energy radiation from deep within Earth

5. Artesian wells require tilted strata a confined aquifer sufficient precipitation all of these

Hints

1. Hint: Remember that groundwater can move to the surface.

2. Hint: Groundwater moves upward under a low water table.

3. Hint: The word hydraulic refers to things associated with water.

4. Hint: Geysers are common in active volcanic areas.

5. Hint: Review the conditions necessary to have an artesian aquifer.

Answers

1. Groundwater is in constant motion. Correct Feedback: Correct. Groundwater is in constant motion. Incorrect Feedback: Incorrect. Remember that groundwater flows.

2. high pressure to areas of low pressure Correct Feedback: Correct. Groundwater flows from high pressure to low pressure areas.

Incorrect Feedback: No. Groundwater flows by gravity and pressure differences.

hydraulic head
Correct Feedback: Correct. The hydraulic head is the elevation difference.
Incorrect Feedback: Incorrect. Choose the term that has to do with water.

4. hot igneous rocks

Correct Feedback: Correct. The water is warmed by passing through hot igneous rocks. Incorrect Feedback: No. The water is warmed by passing through hot igneous rocks.

5. all of these

Correct Feedback: Correct. Artesian aquifers require all of these.

Incorrect Feedback: Review the conditions necessary to have an artesian aquifer.