

Download File PDF Gizmo Photosynthesis Lab Answer Key

#Jenny



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#Markus Jensen



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so many fake sites. this is the first one which worked! Many thanks

Appendix B3: Teacher Instructions and answer key for Gizmo :

Part 1: Gizmo Warm-up

The Tides Gizmo™ shows the relative positions of the Earth, Moon, and Sun. (None of the distances are to scale.) An observer stands on Earth.

1. Set the **Speed to Slow**. Select the **BAR CHART** and press **Play** - students asked what they notice - should take notes on what, and please students to answer and share with class. This should be continued for whole exercise. Earth spins in a counterclockwise direction. On the bar chart, the water level goes up and down.
2. Click **pause** when the water is at its highest level. This is called **high tide**, what is height of water during high tide? 20 feet high
3. Click **Play**, and then **Pause** when the water is at its lowest level, called **low tide**. What is the height of water during low tide? 10 feet high
4. Click **Reset**. Click **Play**, and then click **Pause** after one day. Select the **GRAPH** tab. How many high tides are there in a day? 2 Low tides? 2

Part 2: Activities

Activity A: The Moon and Tides

Get the Gizmo ready:

- Click **Reset**.
- Select the **BAR CHART** tab.

Question: What causes high and low tides?

1. **Observe:** Click **Play** and watch the tides for a while on the **BAR CHART** and **SIMULATION** panes. Notice the bulging bands of water around Earth. These are **tidal bulges**.

A. How many tidal bulges are there? There are two tidal bulges.

B. What kind of tide does the observer experience as he passes through a tidal bulge? The observer experiences **high tide**.

C. What kind of tide does the observer experience when he is between tidal bulges? The observer experiences **low tide**.

D. In one day, how many times does the observer pass through a tidal bulge? **Twice**

2. **Form hypothesis:** What do you think causes the tidal bulges to form? **Hypotheses will vary**

3. **Observe:** Set the **Speed to Fast** and click **Play**. What do you notice about the tidal bulges.

Taken from: www.exploremath.com Tides

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