

Download File PDF Student Exploration Pond Ecosystem Gizmo Answer Key

#Jenny



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#Rio



Cool! I'am really happy

#Markus Jensen



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#Diego Butler



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

Activity G: Dissolved Oxygen

Get the Gizmo ready:
• Select No Bars.
• A Lab color is recommended for this activity.

Question: How does temperature affect the concentration of dissolved oxygen?

- Explore:** Measure the temperature and concentration of dissolved oxygen in several ponds.
- Collect Data:** How does temperature affect oxygen concentrations?
- Observe:** Which ponds will have a higher average oxygen concentration, ponds cooler than 20 °C or ponds warmer than 20 °C?
- Test:** For each pond, measure the temperature and oxygen concentration at 0:00 AM. If the temperature is below 20 °C, record your results in the left table. If the temperature is above 20 °C, record your results in the right table. Continue until each table is filled.

Ponds cooler than 20 °C		Ponds warmer than 20 °C	
0:00 AM Temp.	0:00 AM Oxygen	0:00 AM Temp.	0:00 AM Oxygen

- Calculate:** Find the **average** oxygen concentration for the cold ponds and for the hot ponds. To find the mean, add the three oxygen concentrations and then divide by three.
Mean oxygen level for cold ponds: _____ Mean oxygen level for hot ponds: _____
- Compare/Contrast:** How does the temperature of water affect its ability to hold oxygen?
- Challenge:** Turn off the No Bars checkbox. Use the Gizmo to investigate the effect of time of day on dissolved oxygen. Record all data on separate sheets. What do you find?

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