**Kumuola Science Education Center**

**Website Review**

**DIRECTIONS**: Go to science blog, trimester 1, Kumuola.

I. On the **Home** page, watch the video: “What is Kionakapahu?” Answer the questions in complete sentences as you watch the video.

1. What are the names of the 4 ponds at Kumuola Science Education Center?

2. What are the names of 2 neighboring fishponds?

3. According to the video, describe the current condition of Kionakapahu pond.

4. What does Kionakapahu mean?

5. What does the future hold for Kionakapahu?

II. At the top menu, click on **Overview**. Read the information on the page or watch the video. Answer the questions in complete sentences as you read or watch the video.

1. What is the name of a major land division in the ahupuaʻa of Hilo.
2. What does Waiakea mean?
3. Keaukaha is a sub division of Waiakea. What does Keaukaha mean?
4. The fishponds at Honohononui were created by?
5. What is Kamehameha schools currently using this area for?

III. At the top menu, click on **Water Quality**. Read the information and answer the following questions in complete sentences.

**pH Levels**

1. What is pH?
2. Solutions (water) that have a high ion concentration have a low pH and are called what?
3. Solutions that have a high ion concentration have a low pH and are classified as what?
4. Solutions that have a low ion concentration have a hgh pH and are classified as what?
5. Describe the pH levels at Kionakapahu.
6. Why is pH level important to monitor?

**Temperature**

1. What is the average pond temperature at Kionakapahu?
2. Why is pond temperature important to fish?
3. How does temperature affect oxygen levels in a pond?

**Dissolved Oxygen**

1. What is dissolved oxygen?
2. Where does the oxygen in pond water come from?
3. What happens to oxygen in the pond during the afternoon?
4. What happens to oxygen in the pond during the night and morning?
5. How does oxygen levels affect fish in the pond?
6. What is eutrophication?