Beading Bracelet Activities

Summary:
This lesson is split into two portions, with no explicit order; they can be done independently, in order, out of order, or just one. This lesson covers the elements of a web page and the functions they have. Students may have already been exposed to web navigation, so they would know that there are buttons, links, edit fields, and so on. All of these items have the potential to have functions, as they DO something when activated. Beading bracelets is a more basic activity to promote learning this, and creating your own functions.

Audience: K-5
Plugged or unplugged: Unplugged

California State Standards for Language Arts
Kindergarten: L.K.5 With guidance and support from adults, explore word relationships and nuances in word meanings.
- 1st grade: L.1.5 With guidance and support from adults, demonstrate understanding of word relationships and nuances in word meanings.
- 2nd grade: L.2.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 2 reading and content, choosing flexibly from an array of strategies.
- 3rd grade: L.3.4 Determine or clarify the meaning of unknown and multiple-meaning word and phrases based on grade 3 reading and content, choosing flexibly from a range of strategies.
- 4th grade: L.4.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.
- 5th grade: L.5.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.

Materials needed:
- Beads of various colors and shapes
- Elastic cord
- Scissors

Prerequisite skills: None required.

Time Estimate: 30-45 mins. each.

Author: Maximo Avendano, California School for the Blind
**Objectives:**

1. Students will understand the basic structure of HTML tags and how they work together to create a web page.
2. Students will understand the concept of cause and effect and how it can be represented through a beading bracelet activity.

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### Instructional Sequence:

| Activity 1: Beading Bracelet based on HTML Structure | 1. Begin by explaining the basic structure of HTML tags, including opening and closing tags, attributes, and their purpose in creating a web page.  
2. Assign different bead colors and shapes to represent different HTML tags. For example, blue beads could represent opening tags, and red beads could represent closing tags.  
3. Have participants select beads to create an example HTML tag structure. For example, they might string a blue bead to represent the opening "<html>" tag, followed by a series of other colored beads to represent different elements, and ending with a red bead to represent the closing "</html>" tag.  
4. Once participants have created their tag structure, help them tie the ends of the elastic cord together to create a bracelet. |
|---|---|
| Activity 2: Beading Bracelet based on Cause and Effect | 1. Begin by explaining the concept of cause and effect, and how one action can lead to another.  
2. Assign different bead colors and shapes to represent different causes and effects. For example, blue beads could represent causes, and red beads could represent effects. |

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3. Have participants select beads to create an example cause and effect structure. For example, they might string a blue bead to represent the cause "rain," followed by a series of other colored beads to represent different effects, such as "wet grass," "puddles," and "rainbows."

4. Once participants have created their cause and effect structure, help them tie the ends of the elastic cord together to create a bracelet.

5. Encourage participants to wear their bracelets as a reminder of the concept of cause and effect, and how it can be represented through a beading bracelet activity.

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As a reflection for this lesson, students could be asked to write about their experience with the beading bracelet activities. They can reflect on what they learned, what they enjoyed, and how the activity helped them understand the concepts of HTML structure and cause and effect.

For example, for the activity on HTML structure, students could write about how they were able to understand the different HTML tags and their functions through the use of different colored beads. They could also reflect on how creating the bracelet helped them to better understand the structure of a web page.

For the activity on cause and effect, students could write about how they were able to identify different causes and effects and how they represented them using different colored beads. They could also reflect on how wearing the bracelet could serve as a reminder of the concept of cause and effect in their daily lives.

Additionally, students could be asked to write about how they might apply these concepts in their future learning or in their daily lives. This
could help them to further connect the lesson to real-world situations and see the practical applications of what they learned.