KOHL CHILDREN'S MUSEUM

STEAM Explorers

THE PLACE WHERE AWESOME LIVES

Wind Sculptures

Design, explore and test the natural push and pull of wind on your sculpture.

Big Idea

Explore the properties of different objects and how they combine with the push and pull of moving the in wind.

Standards

11.A.ECa: Express wonder and curiosity about their world by asking questions, solving problems, and designing things.	Children will ask questions, solve problems with how to make their sculpture move and design their own wind sculpture.
11.A.ECc: Plan and carry out simple investigations.	Children will plan out a wind sculpture design and test it out.
K-PS2-1 Motion and Stability: Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.	Children will plan a design and test out the force of wind and their own pull on different sculptures they create.
2-P S1-2 Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose	Children will test out different wind sculpture designs to see the most movement in the wind.

Materials

- Paper
- Yarn or string
- Crayons or markers
- Hole punch
- Glue sticks or tape
- scissors
- Streamers
- Other craft materials for decorating
- sticks

Setup

Create a space for children to design and test their sculptures.

Directions

1. Start by exploring the different materials. "Which materials do you think would blow in the wind?" Children can explore holding up each material to test if it will blow.
2. Encourage children to select from the variety of different materials to create a sculpture that will move with the wind. "How can we combine some of these

materials to make your wind sculpture? How will you hold onto your wind sculpture?"

3. Encourage children to test their wind sculpture by running around while holding onto it outside, or by safely holding the sculpture in front of a fan.
4. Ask them "What do you see moving? How else could you make your sculpture move? How could we change your sculpture to move more?"

Investigation Questions:

- *What areas of your sculpture are moving?*
- *What shapes will you use in your sculpture? What would happen if you use a different shape?*
- *What could you do to make your sculpture move more or move less?*
- *Does your sculpture have kinetic or potential energy?*