#YGKMUSEUMFROMHOME

KINETIC SCULPTURE

MATERIALS

WHAT YOU'LL NEED

- Paper
- Pencil
- Materials to build:
  - Paper cups
  - Pipe cleaner
  - Tissue paper
  - Ribbon
  - Chairs
  - Tape
  - Skewers
  - Straws
  - Stickers

FIND INSPIRATION

Alexander Calder was a famous sculptor. You can view his sculptures online at the Montreal Museum of Fine Arts.

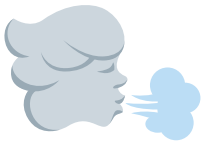
LEARNING CORNER

Objects move because a **force** acts on them. Wind is one force that can move objects.

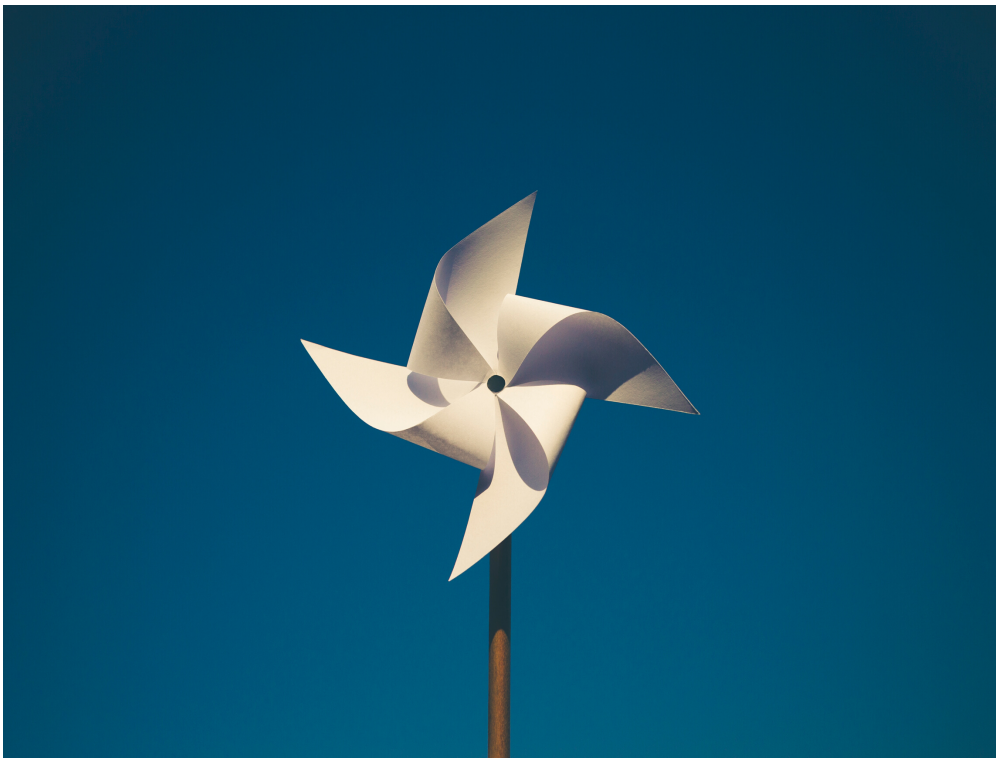
When **movement** is created it can be used to move other objects.

The **foundation** of your structure is just as important as the structure.

What forces make things move? What are objects that move in the wind? Using wind as a force, design a kinetic sculpture that uses wind to move.



BIG QUESTION How can air be used to move things?



Step by step activity instructions on next page.

BONUS QUESTIONS!

How do things move? What simple machines can be combined to create motion?
How do the materials you use affect the stability of your structure?

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PREPARE & INVESTIGATE

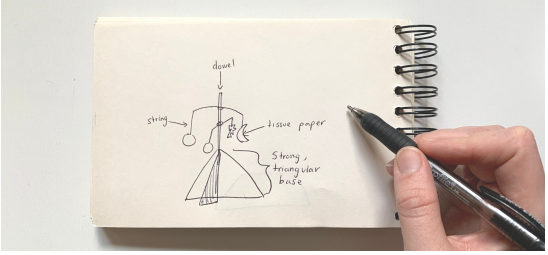
1. Gather your materials.

2. Think about the properties of your gathered materials.

Questions to ask:
What materials catch the wind well? What do these materials have in common?

DESIGN

3. All great designs begin with great brainstorming. Draw at least 3 possible designs for your sculpture.



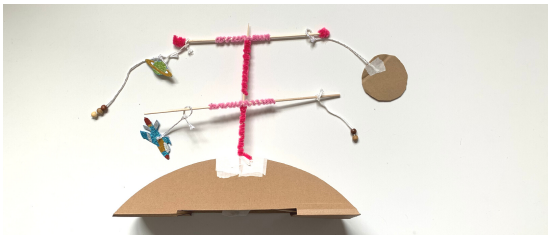
Questions to ask:
How will your design work?
What are some movements you expect to see?

CREATE

4. Create one, some or all of your drafted designs using your gathered materials.

EVALUATE

4. Test your design using wind outside or a fan inside. What worked well? What didn't work so well? Why?



5. Use your answers to create a new design challenge. Modify your design by repeating steps 1 - 4.

MacLachlan WOODWORKING MUSEUM

PUMPHOUSE HISTORY in MOTION