What's in the air?

KINETIC WIND SCULPTURE PROJECT BRIEF

Driving Question: How do we create a lighted, wind powered kinetic sculpture that meets the client's needs?

Questions to consider:

How much voltage is needed to light an LED?
How much voltage is needed to light other types of lights?
How can we optimize voltage?
What is a kinetic sculpture?
What elements and principles are applied to sculpture creation?
How can we make our sculpture sustainable?
Where is the "wind" located? What materials considerations are involved in this?
Who is our client?
What does our client want?
Where will the kinetic sculpture be placed permanently?

Research: Interview Questions for The Client

1) Q: *Example: How big do you want the sculpture to be?*
1) A:
2) Q: *Example: What is "Space is the New Place?"*
2) A:
3) Q:
3) A:
4) Q:
4) A:
5) Q:
5) A:
6) Q:
6) A:
7) Q:
7) A:
8) Q:
8) A:
9) Q:
9) A:

10) Q:
10)A:

Research: Constraints List

Synthesize your notes and develop a list of project constraints to use moving forward with your project:

1) The sculpture must be kinetic (moving).
2) The motion must be wind powered.
3) The wind power must be harnessed to light LEDs on the sculpture.
4)
5)
6)
7)
8)
9)
10)
11)
12)
13)
14)
15)

Wants:

1)
2)
3)
4)
5)
6)
7)
8)
9)
10)
11)
12)
13)
14)
15)

Research: Existing Kinetic Sculptures

Find links to four different kinetic sculptures (two of which have to be wind powered). Describe what they do, how it appears that they move, and write the link to the video here:

1) Sculpture Name:
    a) Artist
    b) Date created
    c) Location
    d) URL
    e) Description of how it works

2) Sculpture Name:
    a) Artist
    b) Date created
    c) Location
    d) URL
    e) Description of how it works

3) Sculpture Name:
    a) Artist
    b) Date created
    c) Location
    d) URL
    e) Description of how it works

4) Sculpture Name:
    a) Artist
    b) Date created
    c) Location
    d) URL
    e) Description of how it works

Research: Elements & Principles of Sculpture:

Line

Plane

Color

Value

Form

Texture

Space

Positive Space

Negative Space

Subject

Theme

Balance

Symmetrical Balance

Proportion

Altered Proportion

Emphasis

Movement

Rhythm & Repetition

Unity & Variety

Unify

Variety

Sculpture-in-the-Round

Relief Sculpture

Environmental

Installation

Additive

Subtractive

Assemblage

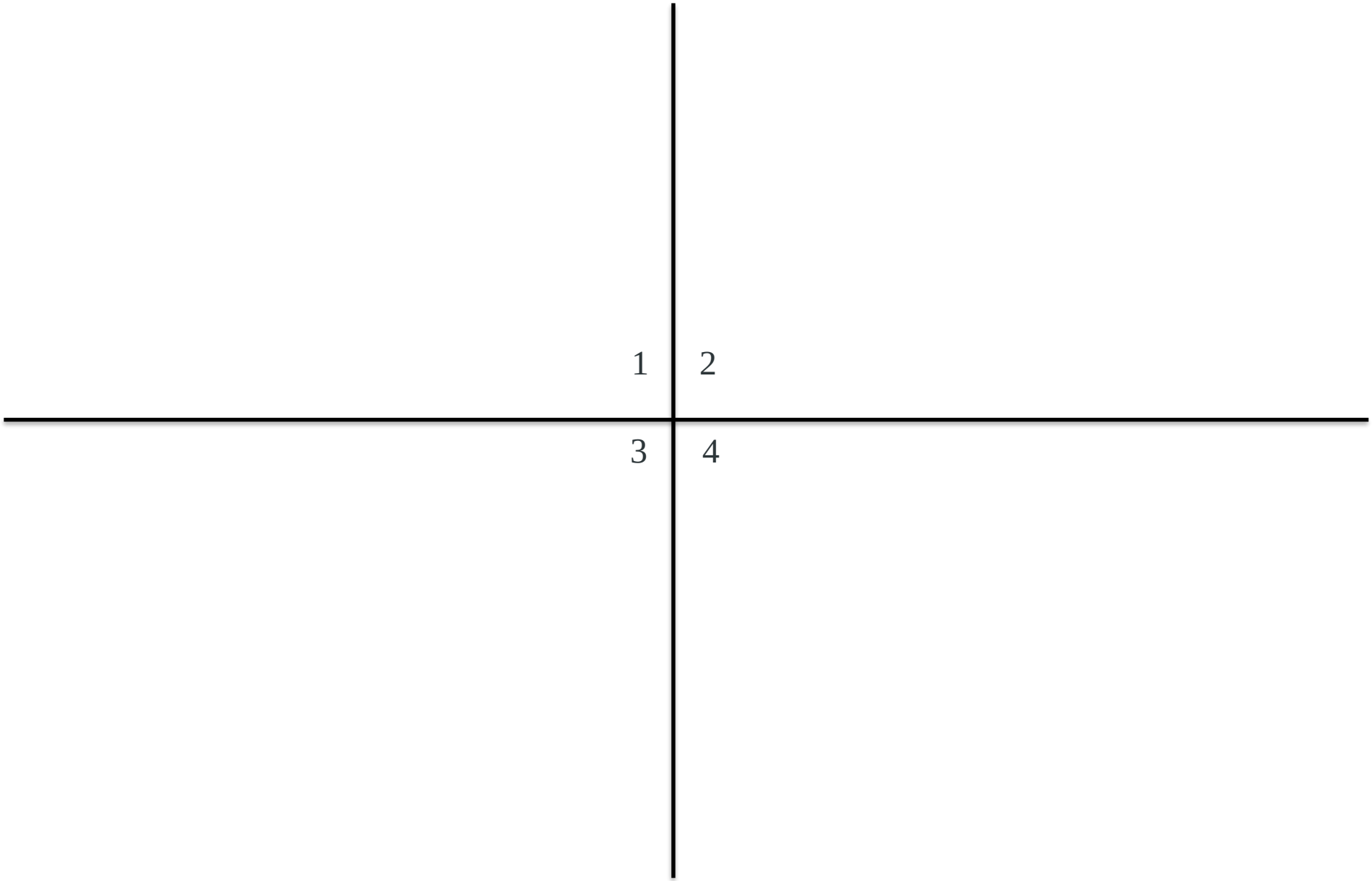
Casting

Representational

Abstract

Non-Objective

IDEA DEVELOPMENT: THUMBNAIL SKETCHES



IDEA DEVELOPMENT: FINAL KINETIC SCULPTURE SKETCH

In addition to using your constraints checklist, complete the list below with six of the elements and principles of 3D Art that the final piece includes.

1) _____ How: _____

2) _____ How: _____

3) _____ How: _____

4) _____ How: _____

5) _____ How: _____

6) _____ How: _____

This sketch:

a) Must be 3D

b) Must meet all client requirements.

c) Include the following labels:

(1) Materials

(2) Colors (color it).

(3) Sculpture height

(4) Sculpture width

(5) How it will rotate

d) Must be drawn to be free-standing.

Check the box to the right if the client selected this design.

Final Kinetic Art Sculpture Sketch

KINETIC ART SCULPTURE "SECTION" SKETCH

Take the copy of the sculpture sketch you were given and draw a zoomed in, detailed sketch (or schematic) of the portion your team has been assigned. Circle the section your team has been assigned:

BASE **BLADES** **ROTATIONAL COMPONENTS/BALLAST FOR BLADES** **ELECTRICAL SYSTEM**