

RANRAN FAN

INHALE THE EXHALE



Duration 30-60 min

Materials:

- Variety of colored paper and pattern paper in card stock, quantity should be 3x the number of students
- Popsicle sticks & drinking straws. Quantity should be at least 5x the amount of students participating.
- Paper plates or cardboard (for students who want a more weighted piece in the end).
- Colorful paper tissue
- 1-4 Hot glue guns depending on number of students and ages. I recommend for teachers who are worried about students getting hurt to use only as many glue guns as they have helpers in the room to man them.
- Scissors (enough for each student to have their own)
- Colored Markers
- Clear Tap

Objectives:

Students will create their own abstract sundial sculpture.

Room Setup:

Tables and/or individual desks for the students to work at.

A materials table (a table where all the materials students can use are on display).

****Optional:** low instrumental music in the background can help students focus, and makes for a nice atmosphere. Recommendation : Any lofi instrumental.



Intro:

Q. What are different devices we use to tell time past and present?

- *once the class finishes sharing, speak about the sundial, what was its purpose and explain the way it works.*
- *Show displayed photos of sundials, from traditional to abstract forms.*

Activity:

- Have students sketch out a sundial, it can be tall, small, wide, round, square, a person, place, or thing. It can be anything from the shape of a tall flower, to a cow jumping over the moon.
- Encourage students to go beyond the norm and make their sundial without restriction using the materials provided.
 - If a student is feeling uninspired have them think of their favorite person, place or thing out loud and make a sundial of that, or have them close their eyes and imagine the "if you could have a sundial, any color, any size and shape, what would that look like? how many layers? what colors? is it small? is it wide? ect."
- Once they have decided on what they want their sundial to look like have them gather the desired materials to start designing and building it from top to bottom.
 - ****Be available to help students who need an extra hand or students who are stuck to think about the structure needed to build their piece, suggest options but don't decide for them (i.e. "should we combine Popsicle sticks or use a straw, what do you think?)**
- Give students a heads up at the last 20 minutes of class to begin solidifying their sundial sculpture.
- Remind students to add a Gnomon (this is often forgotten), if a student doesn't want one in the end that is okay!

****Some student might engage with this project in a different way, be open to them exploring more than set on their following directions. You may have a student may begin guiding something completely different, but the key is engagement and exploration! Compliment the creativity, ask them if they want to add a gnomon!**