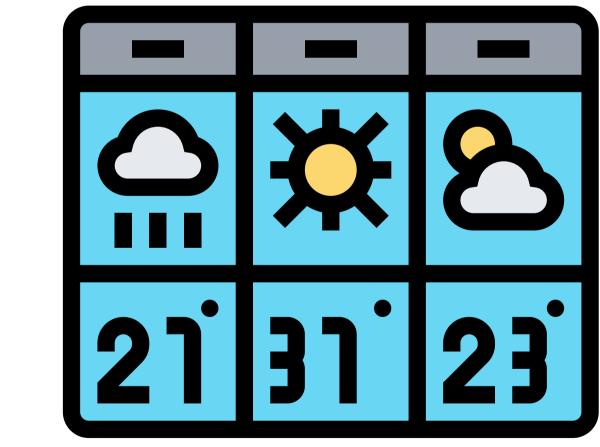
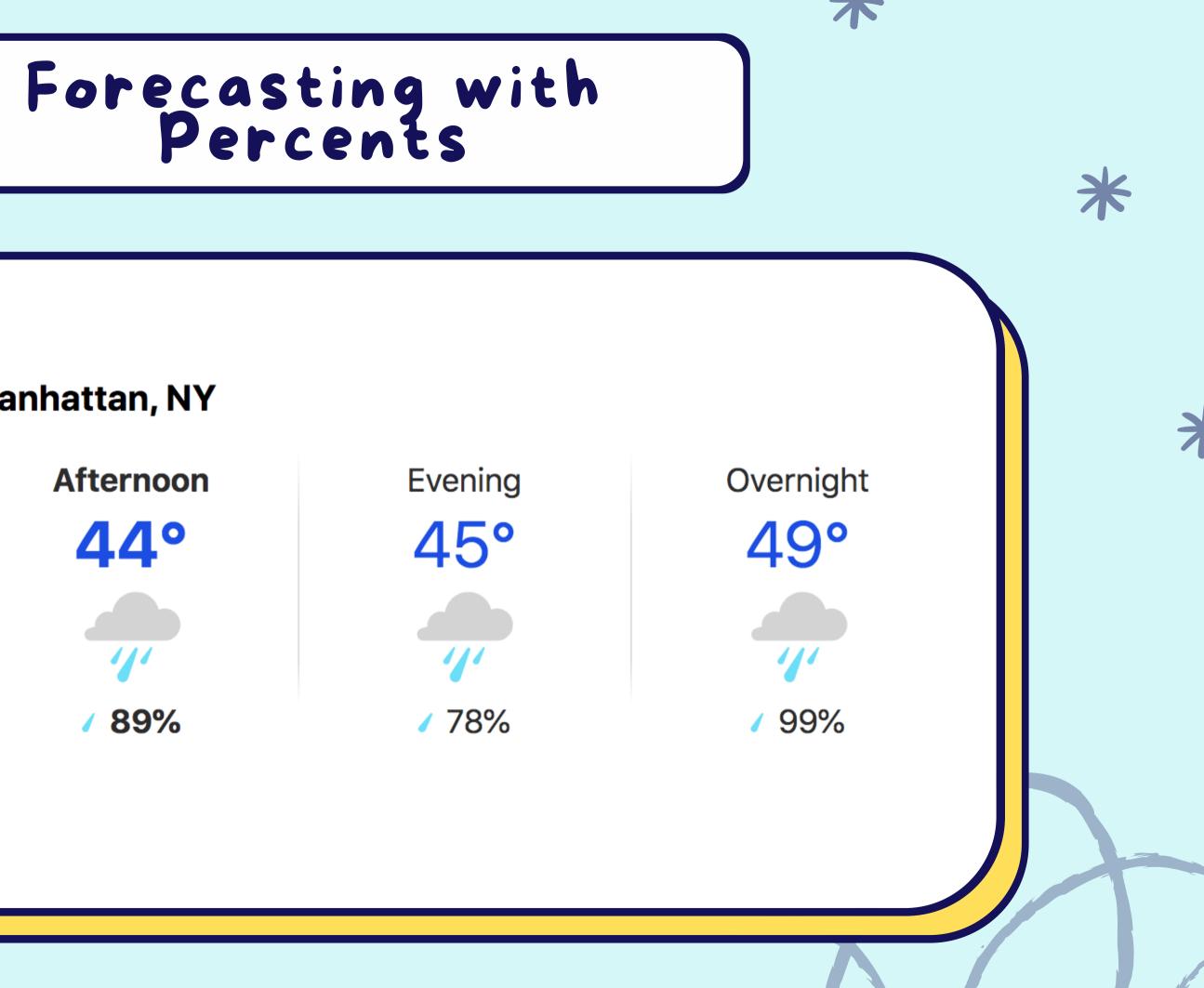
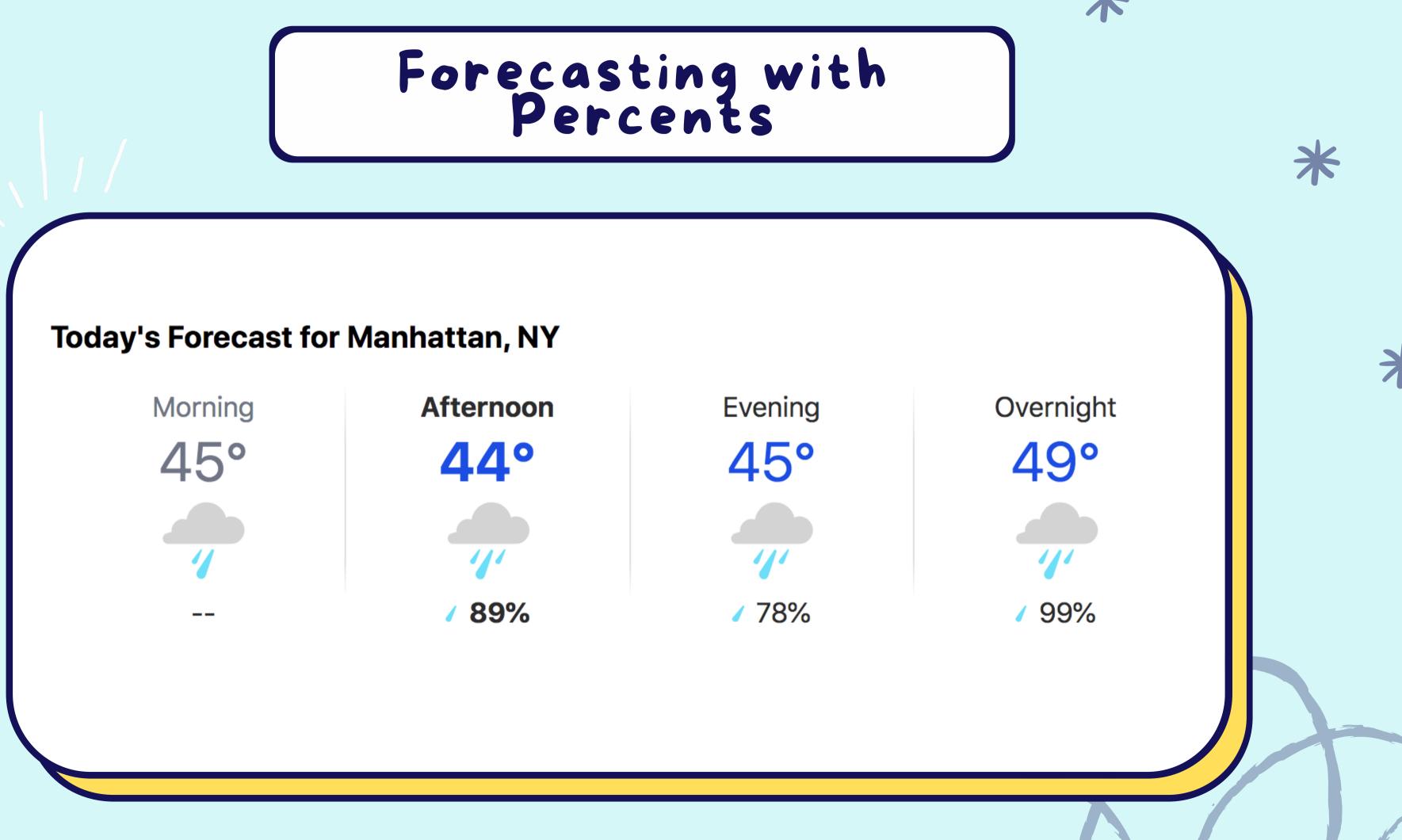


How do we convey information when we aren't sure about what's going to happen?

Weather Forecasts 米 50%



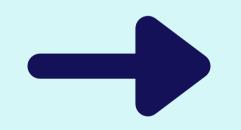




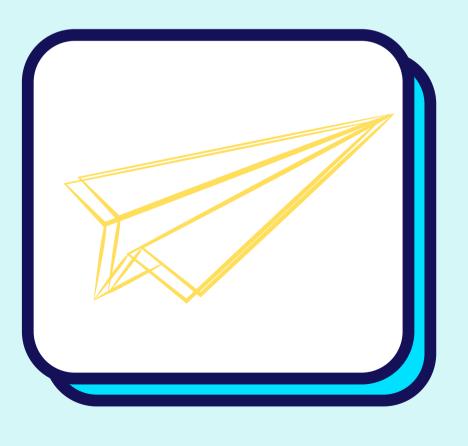


Climate Models



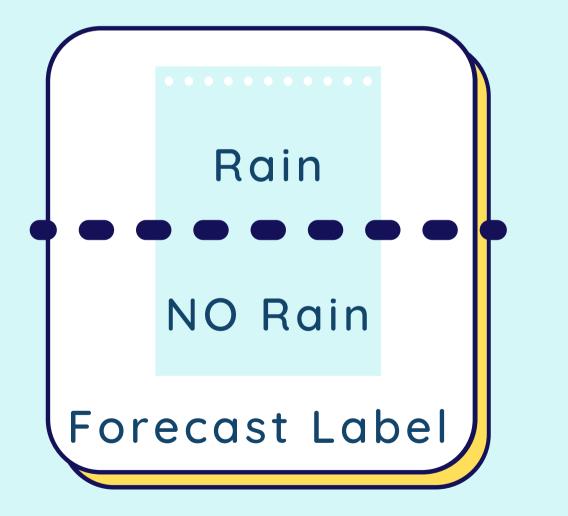


Paper Airplanes

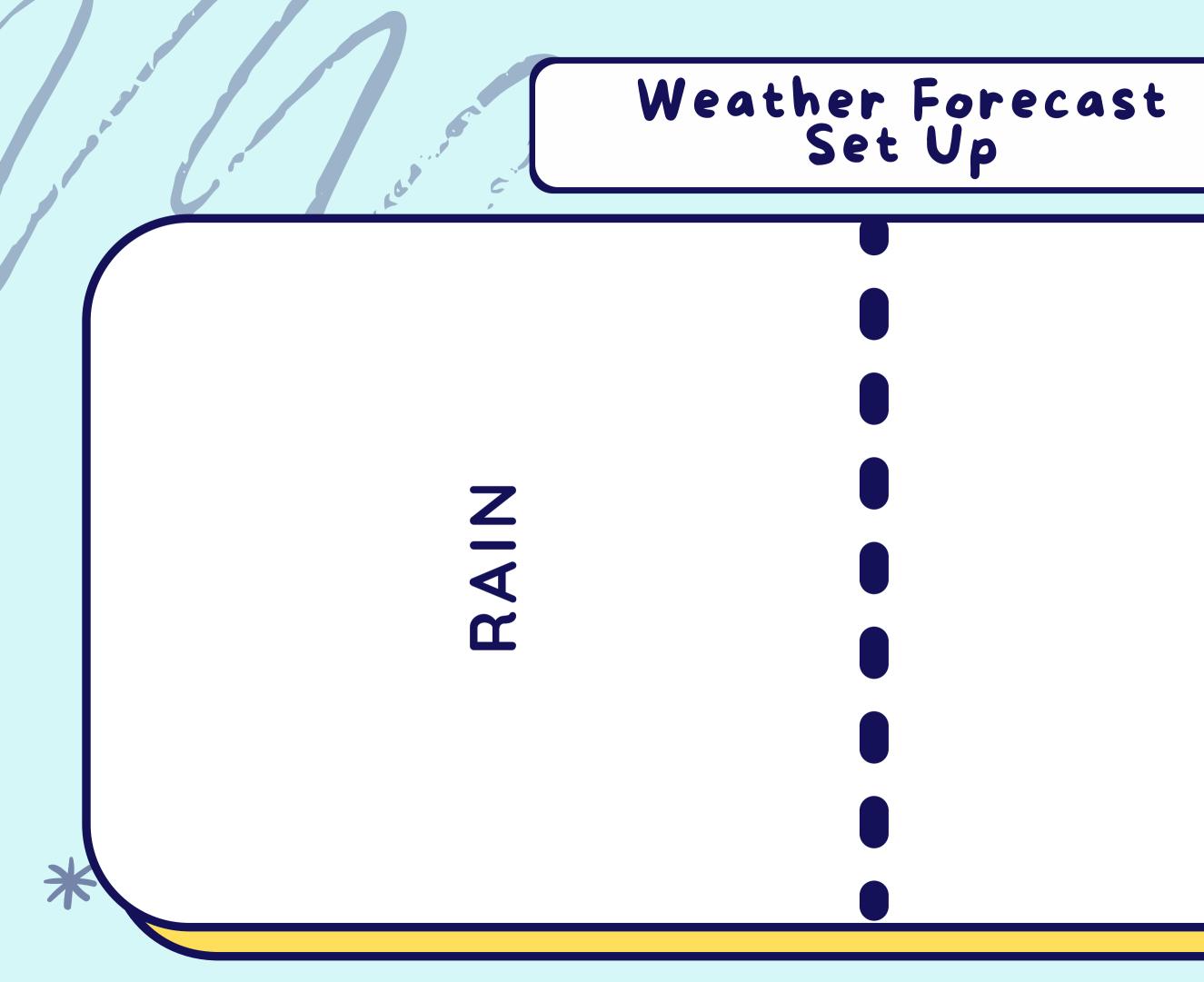












NO RAIN

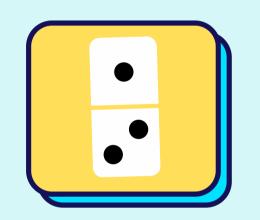
7

Let Your Airplanes Fly!

For the most accurate results: stand in the same place and try to throw each airplane the same way each time



Watch out for the Butterfly Effect

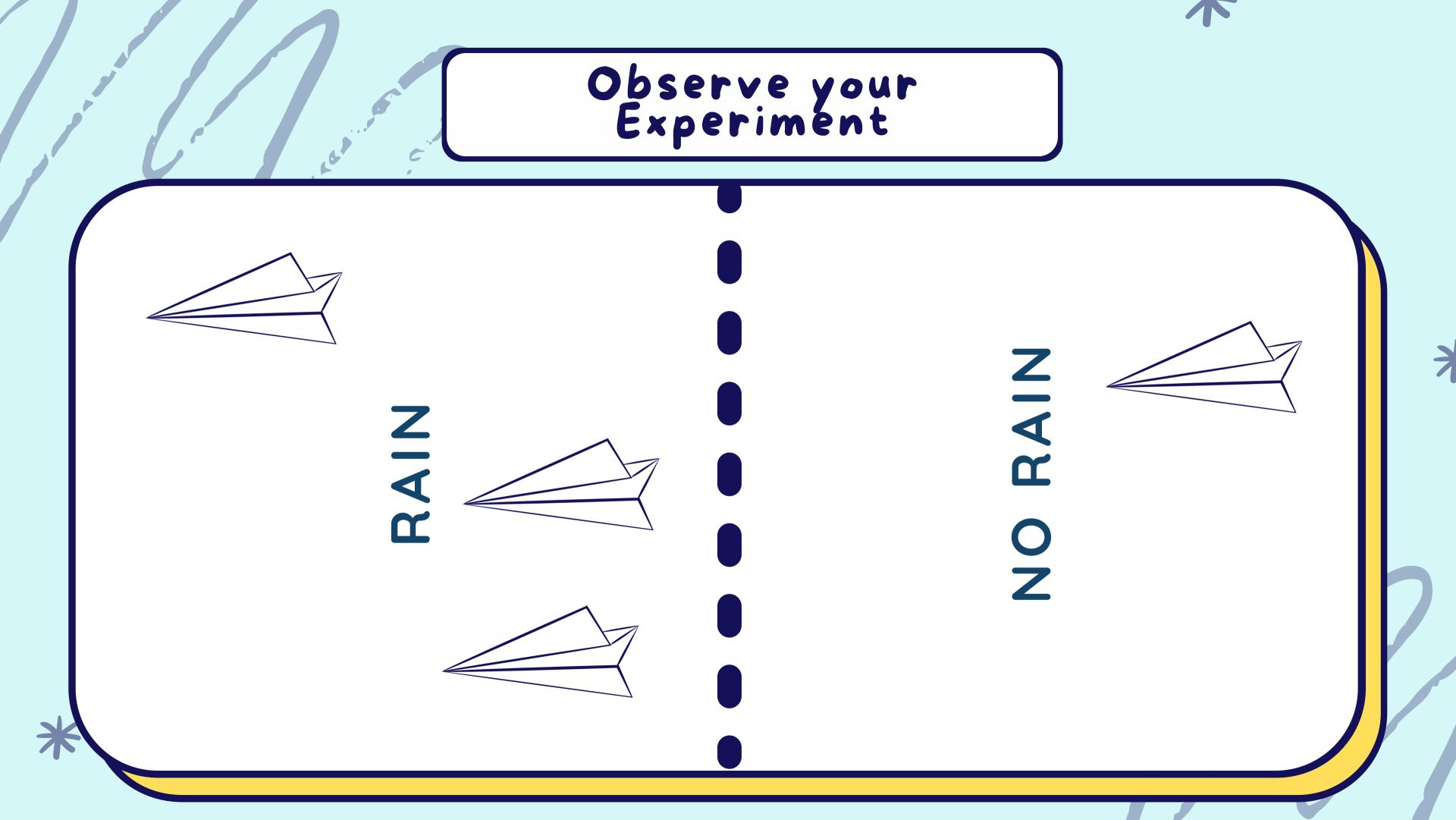


*

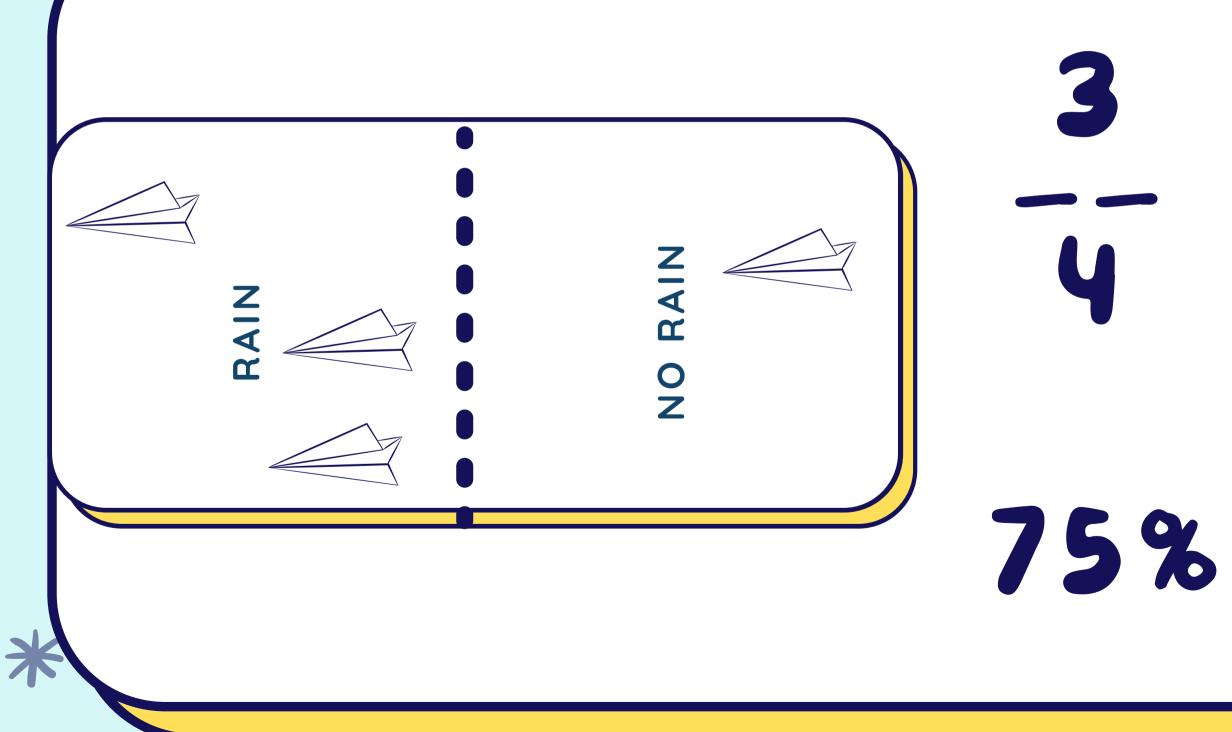
Small Changes







Make a Forecast





airplanes landed in "RAIN"

7

of rain

Round 2

El Niño Southern Oscillation (ENSO)

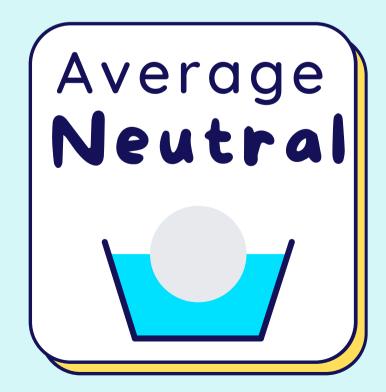




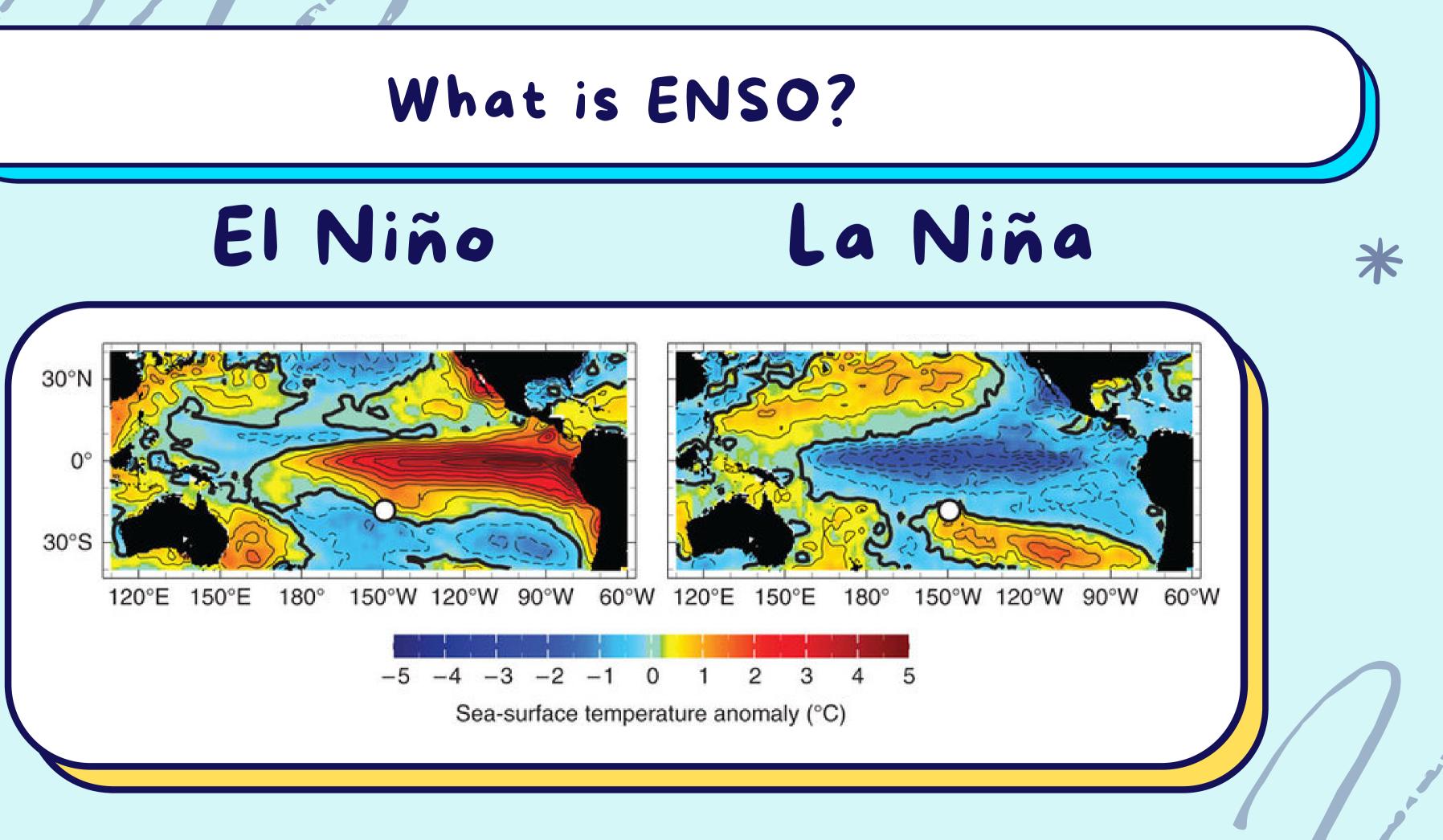
What is ENSO?

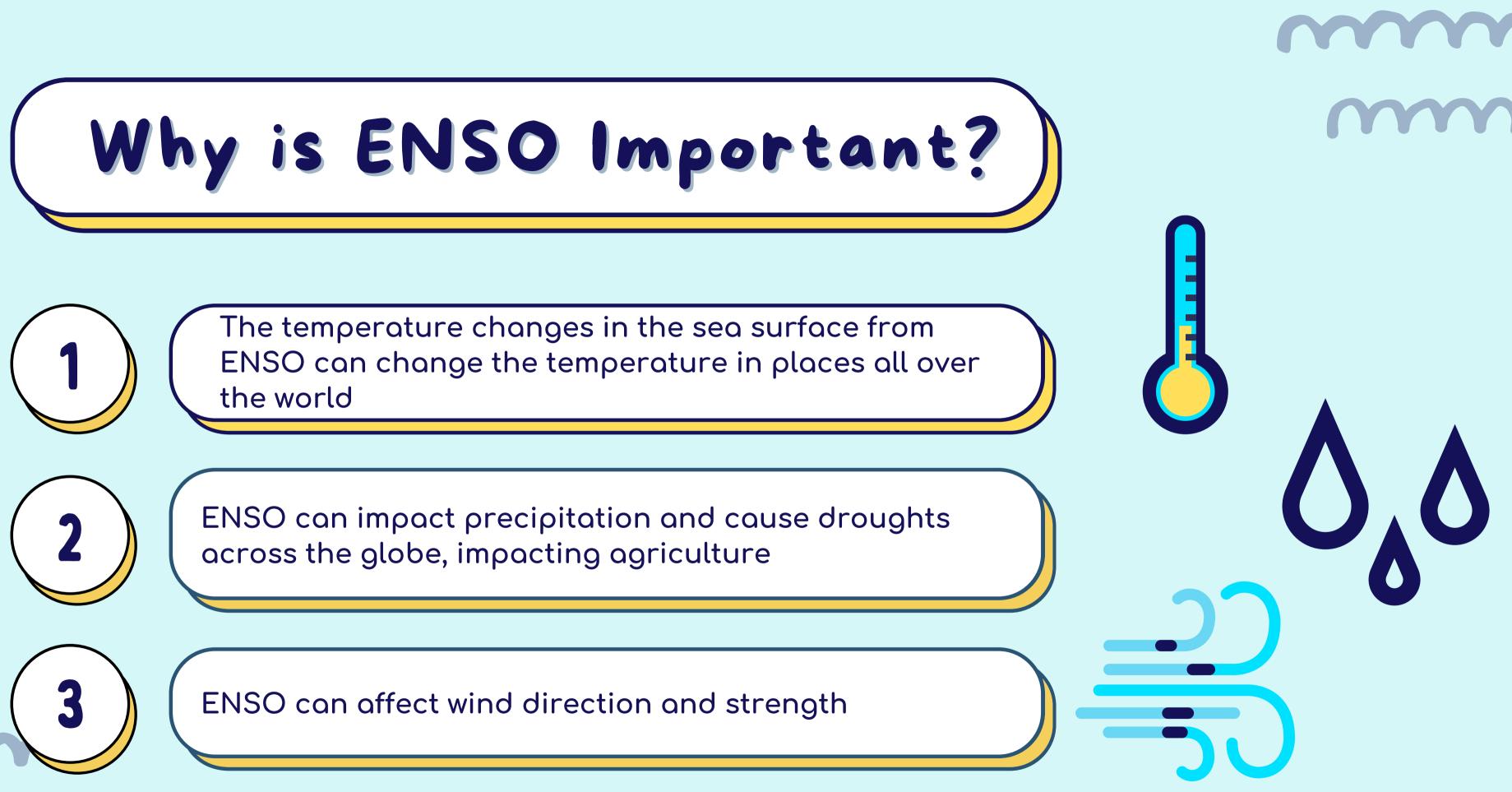
Every few years, the surface temperature of the tropical Eastern and Central Pacific Ocean moves between 3 phases:

















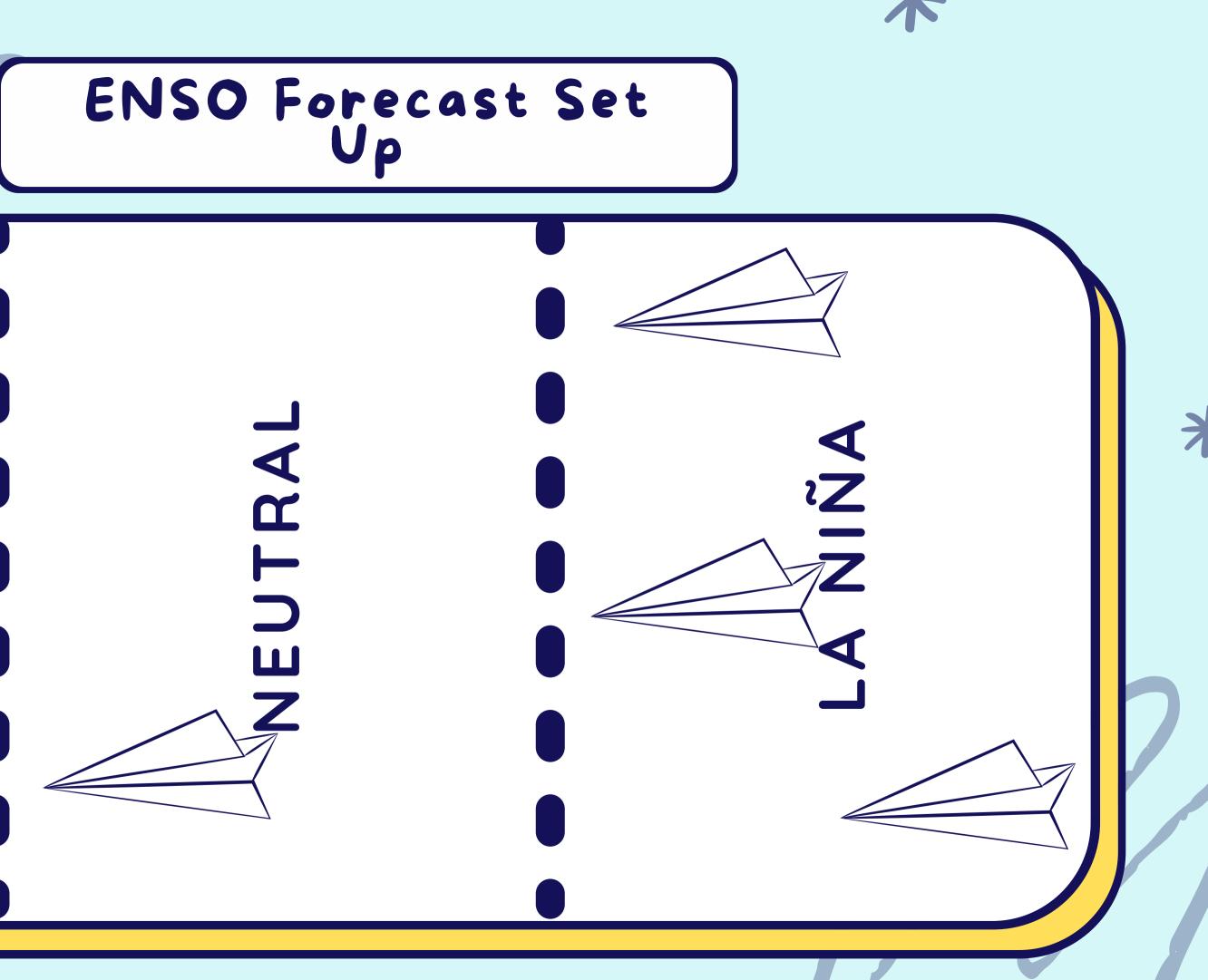


EL ZIÑO

Let Your Airplanes Fly!

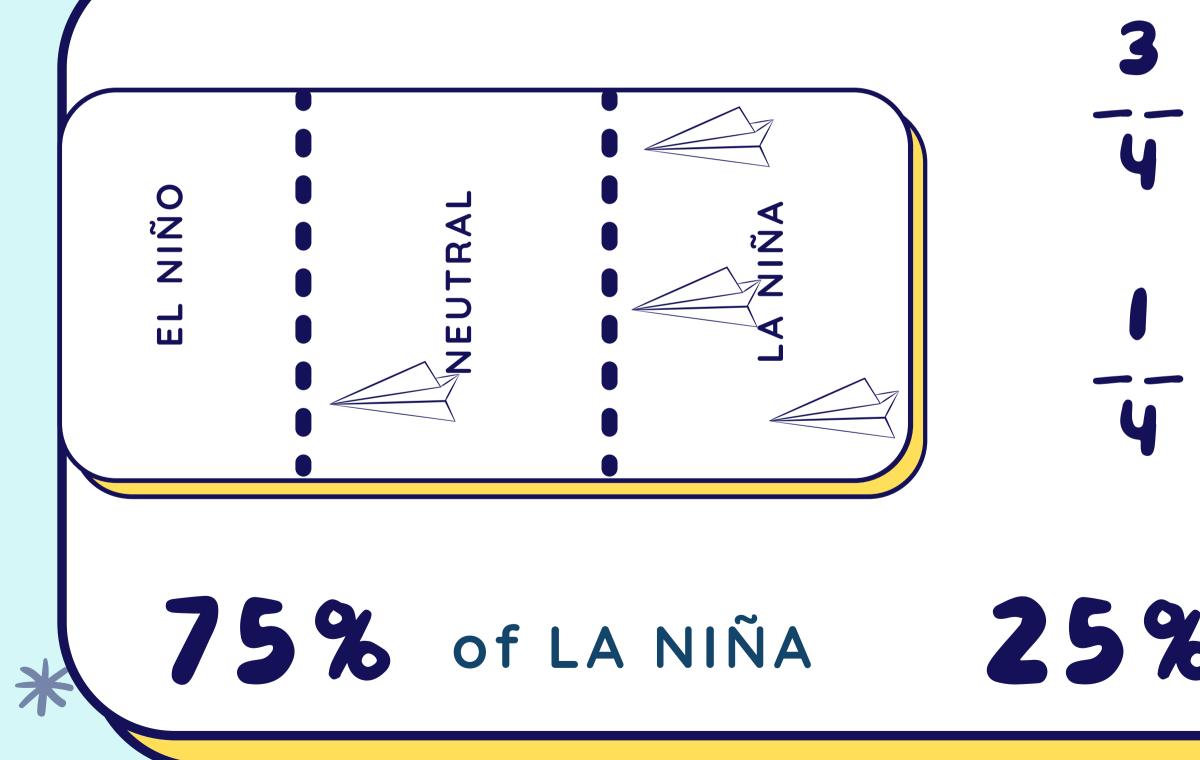
For the most accurate results: stand in the same place and try to throw each airplane the same way each time







Make a Forecast



airplanes landed in "LA NIÑA"

7

airplanes landed in "NEUTRAL"

25% of NEUTRAL



Scientists use climate models to predict how the earth may work,

BUT...

There is always uncertainty, which is why we see "% chance" in forecasts





7

Discussion Questions

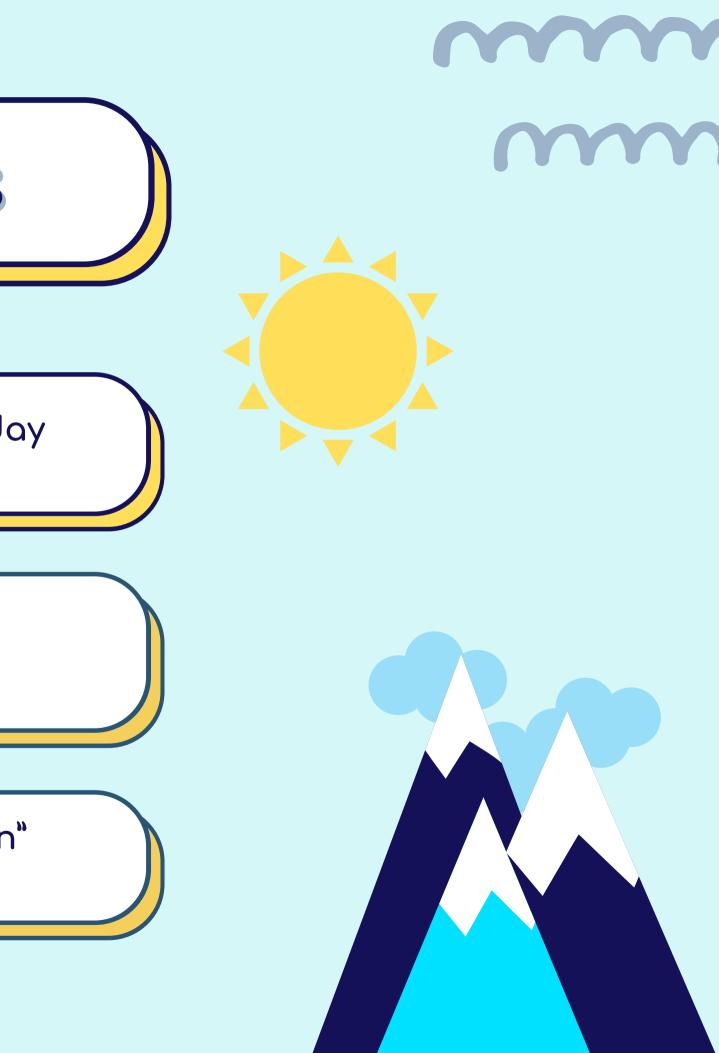
How do you use weather forecasts in your everyday life?

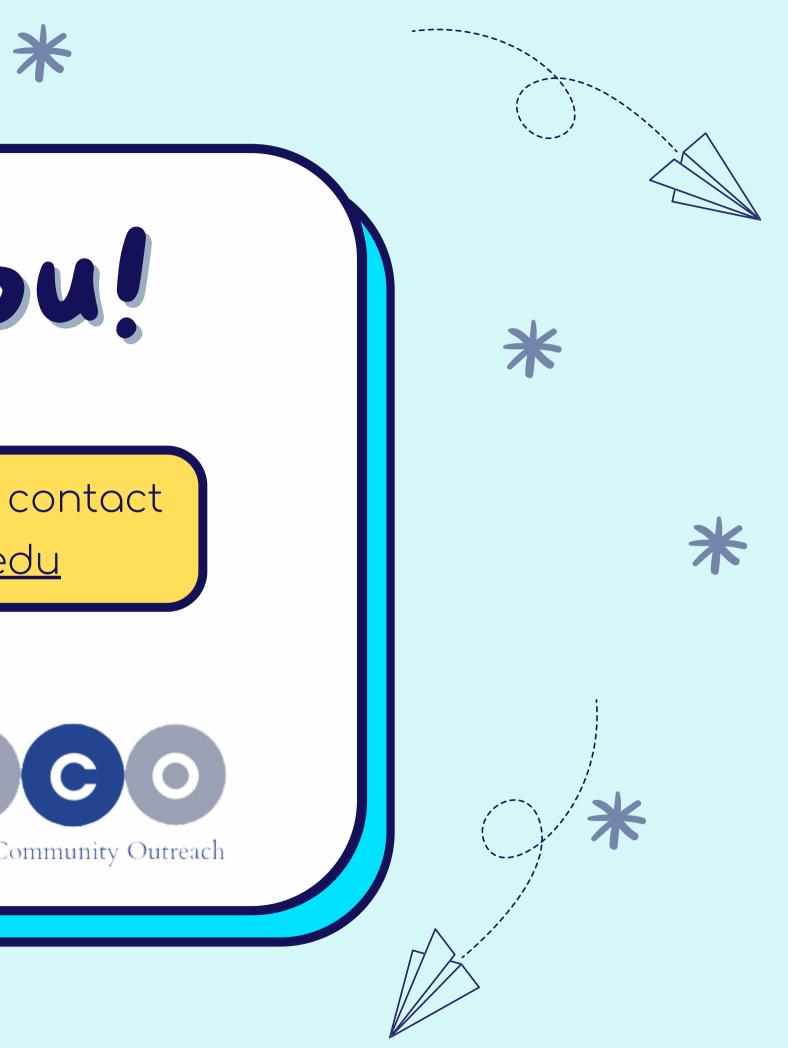


Why are forecasts important? Why do they help in disaster situations like a tornado or hurricane?



What does a forecast that says "50% chance of rain" mean?





Thank you!

For more information, please contact outreach@iri.columbia.edu

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