# My NASA Data - Interactive Models

# Air Quality Index in Fresno, CA

## Grade Band

- 9-12

## Time

- 30 minutes

## Directions

Access the slide deck by making a copy and follow the steps below.

1. **(Predict):** Move each pie chart into the blue box that you think matches the Air Quality Index from that year for each season.
    1. How do you think air quality changed between 2002 and 2020?
2. Use the Daily Air Quality Index Signatures to rearrange the pie charts for each season.
    1. Were your predictions accurate? Provide 1-2 examples to show how your predictions were accurate or inaccurate.
    2. What surprised you? Explain your thinking!
3. Check your work. Your teacher will have the correct answers available.
    1. After looking at the correct answer, did you need to move any of your pie charts? Which pie chart did you move? Looking back at the air quality index signatures, does this move make sense to you? Why or why not?

## Teacher Note

Teachers who are interested in receiving the answer key, please complete the Teacher Key Request and Verification Form. We verify that requestors are teachers prior to sending access to the answer keys as we've had many students try to pass as teachers to gain access.

## NGSS Three Dimensional Learning

**NGSS Disciplinary Core Ideas**

- ESS3C: Human Impacts on Earth Systems

**Crosscutting Concepts**

- Cause and Effect

**Science and Engineering Practices**

- Analyzing and Interpreting Data

## Document Resources

- Daily Air Quality Signatures

## Google Slide interactive Files

Monthly AQI Pie Charts