Lesson 1. What's in the air?

Circle 3 things that are in the air.

Dust	Books	Pollen	Rocks	Germs

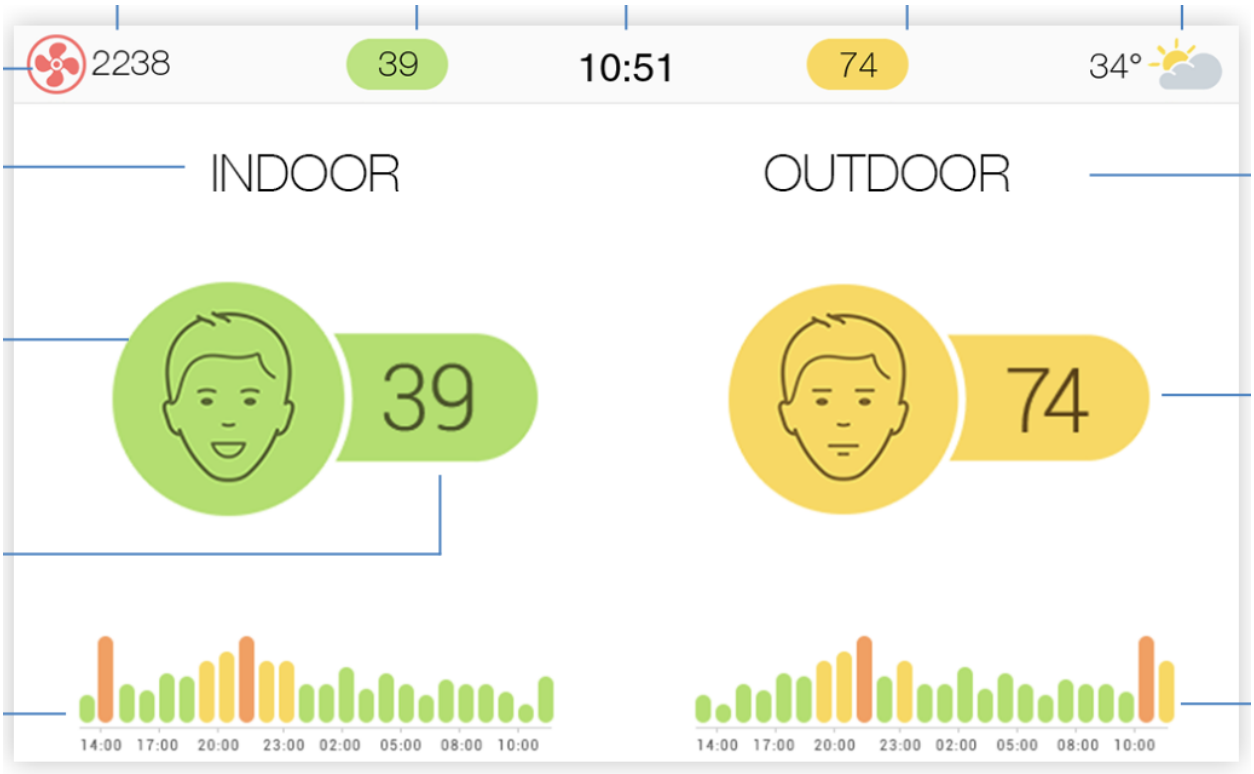
Engineering Design

What is the problem we want to solve?

_____

_____

Draw a picture of how we might be able to solve the problem.



Circle the indoor air quality.

Making inferences. What can this air monitor tell us?

I think green means _____clean / dirty _____ air.

I think yellow means _____cleaner / dirtier_____ air.

According to the picture, is the air cleaner indoors or outdoors?

Lesson 2. Building an Air Purifier

My job is _____.

Does air quality change over time?

Does air quality change over time?

Plan an investigation to test the air quality.

1. What data will you collect? Check one.

   _____Air Quality Index

   _____Carbon dioxide (CO_2)

   _____Particulate matter (PM)

2. When will you collect data?

   I will collect data _____.

Make a prediction.

I think the _____ (from question 1)

will _____ (increase or decrease) over time.

Lesson 3. Collecting Data

Date	Air Quality Index	Smile or Frown?

Analyzing Data

My data tells me _____

I know this because

_____

_____

Lesson 4. Sharing the Results

Scientists and engineers share their results with lots of different people. Choose a role, audience, and format. Create a product that communicates your results appropriately to the audience.

Role	Audience	Format	Topic
Scientist Engineer Student	Family Principal Politicians UConn researchers	Letter Presentation (slides) Infographic Report	Indoor air quality