
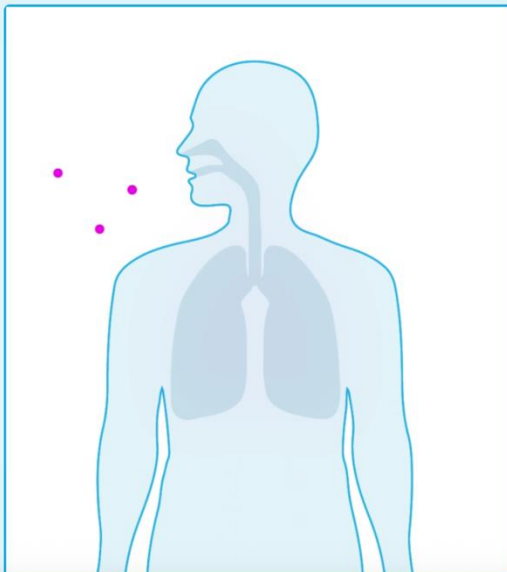

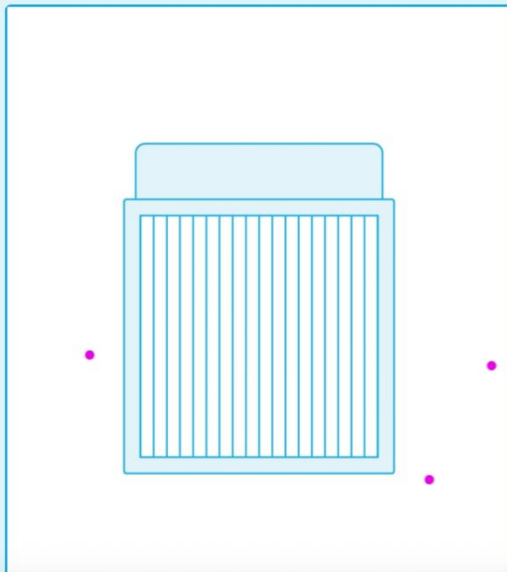


# Lesson 1. What's in the air?

3 things in the air are...

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<p data-bbox="462 682 511 735"></p> <p data-bbox="292 745 682 787"><b>Don't breathe pollution</b></p> 	<p data-bbox="1112 682 1161 735"></p> <p data-bbox="958 745 1315 787"><b>Remove the pollution</b></p> 
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<b>I notice</b>	<b>I wonder</b>

## Engineering Design

What is the engineering design problem we want to solve?

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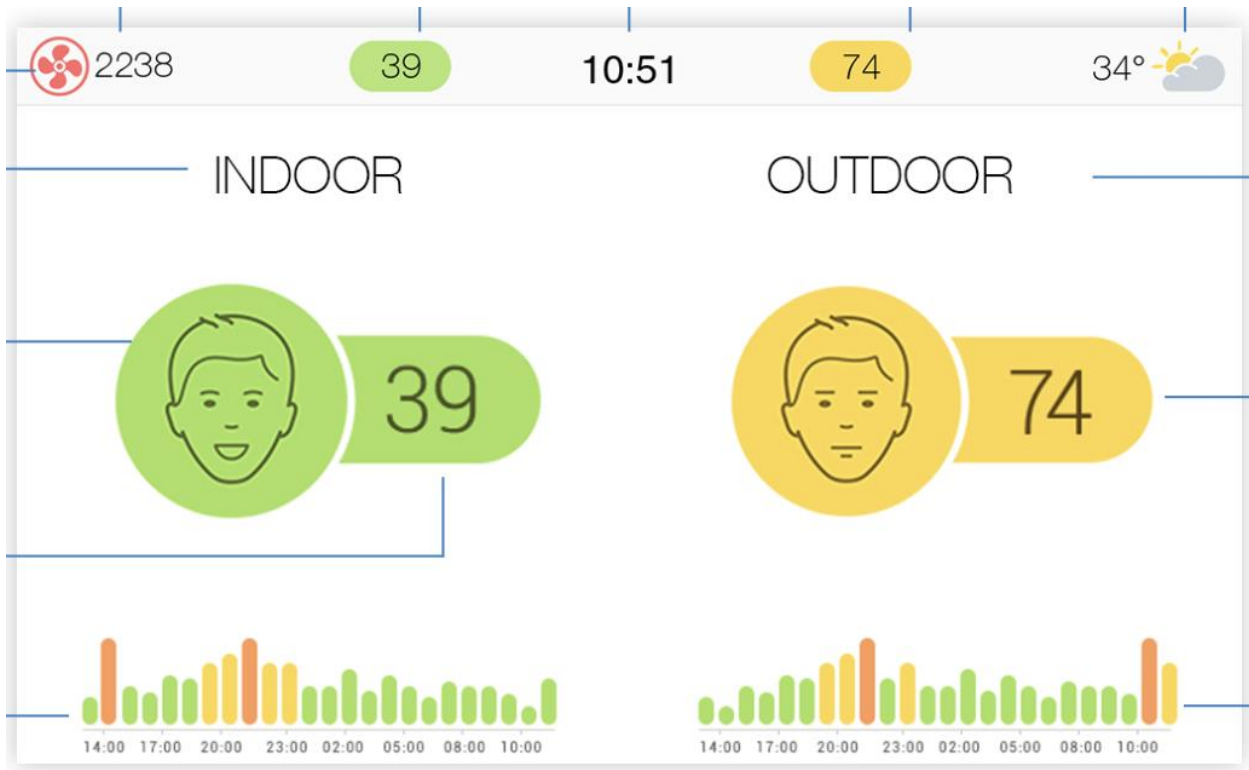
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Cite one piece of evidence from the video. We want to solve this problem, because

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Criteria: Our solution needs to...	Constraints: Things we need to consider are...
<p>1. _____</p> <p>2. _____</p>	<p>1. _____</p> <p>2. _____</p>



Label the time, temperature, and indoor air quality index.

Making inferences. What can this air monitor tell us?

I think green means \_\_\_\_\_ air.

I think yellow means \_\_\_\_\_ air.

Based on the picture, do we want a low or high Air Quality Index, the number next to the face?

\_\_\_\_\_, because \_\_\_\_\_.

Date	Air Quality Index	Smile or Frown?

## Lesson 2. Building an Air Purifier

My job is \_\_\_\_\_.

### 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<sub>2</sub>)

\_\_\_\_ 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

Write a claim about your data.

My data tells me \_\_\_\_\_

Use two pieces of evidence from your data to support your claim.

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Explain your claim. Why do you think the data shows this pattern?

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## 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	Family	Letter	Indoor air quality
Engineer	Principal	Presentation (slides)	
Student	Politicians	Infographic	
	UConn researchers	Report	