Facial recognition

Years 5-6

Groups of 2

45 minutes

Pens/paper
A4 graph paper
Ruler
Large peice of string

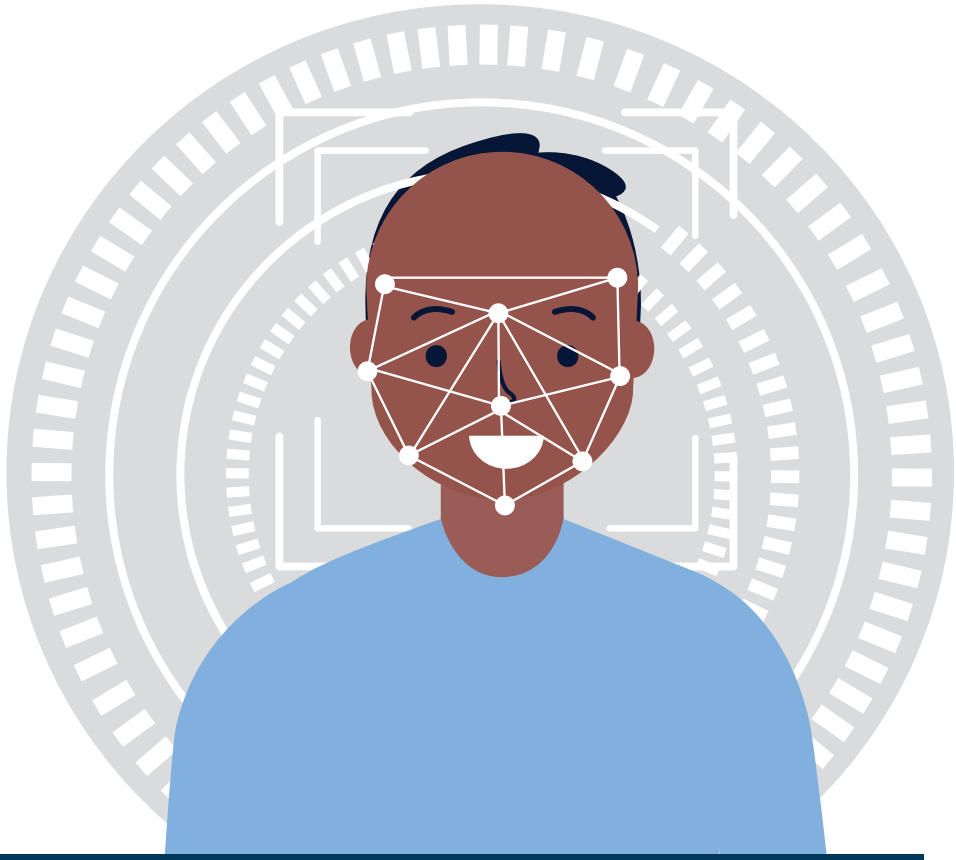
Student instructions

Create a set of measurements that could be used to map your partner's face.

1. Use the string to join two notable points on your partner's face
2. Measure the distance between these points
3. Record this line and the distance on the graph paper
4. Attempt to record as many distances as possible until you create something that resembles a face on the graph paper

Does smiling change the data?

5. Get the person being measured to smile
6. Re-measure all of the same measurements from the first map
7. Create a second face on a new piece of graph paper with the new measurements on it
8. Swap your faces with another group
9. Try to identify which one is smiling



EXTENSION

Can you find a way to record the class data in a spreadsheet?
Can you see a pattern in the data when people are smiling?
How could you turn this into an algorithm?