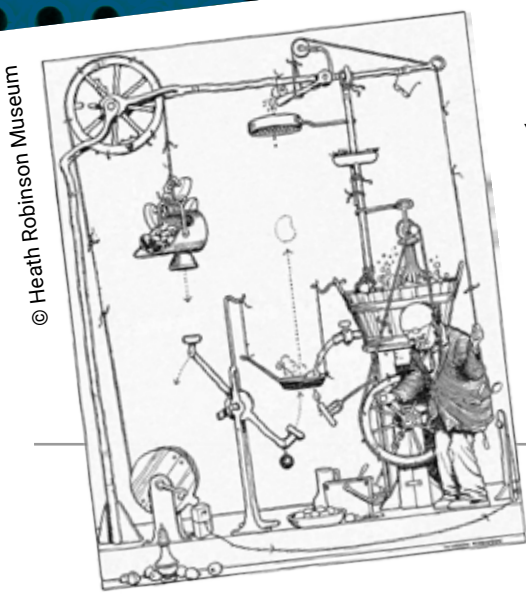


Student Activity Card 01 – CREST SuperStar Challenge



Your task is to design a new machine to impress Tommy Flowers.

It doesn't need to be about coding but it must solve a problem. No idea is too wacky!

It could be a machine to tidy your room, make your breakfast or even tie your shoelaces!

Wacky invention questionnaire!

Do you agree or disagree with the following statements?

| | Question | Agree 😍 | Not Sure 😐 | Disagree 😞 | Not Applicable 😶 |
|---|-----------------------------|---------|------------|------------|------------------|
| 1 | I like tidying my room. | | | | |
| 2 | I like making my breakfast. | | | | |
| 3 | I like tying my shoelaces. | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

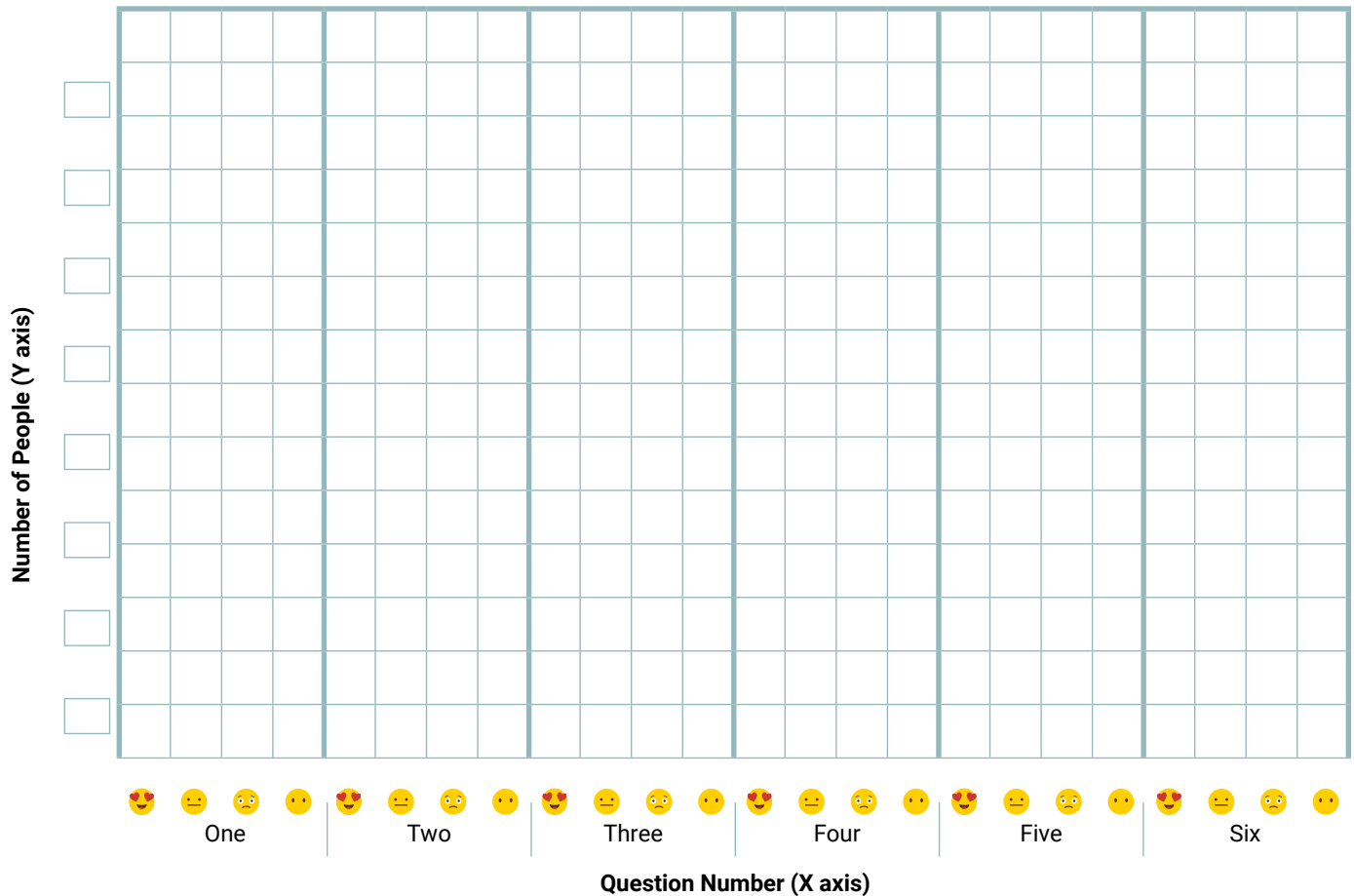
Add three more questions. Use the questionnaire to find out what problem needs solving. Ask as many people as possible. Use a **tally chart** to keep score.

02 – Tommy Who?

Student Activity Card 02 – CREST SuperStar Challenge

The results

Use the grid to make a bar chart of your questionnaire results. Label the Y axis with the number of people. Use pencils to colour in each column.



Decision time

Discuss the results of your questionnaire and decide what machine you are going to design.

Answer the following questions:

What problem will your machine solve?

What will you call it? It needs a catchy name like Colossus!



Student Activity Card 03 – CREST SuperStar Challenge
02 – Tommy Who?

Your design

Use the box below to draw a rough sketch of your machine.

Fill in the boxes to describe what your machine is for, what it is made from, and any special features.

| | |
|--|--------------------------------|
| | <p>This machine is for:</p> |
| | <p>It is made from:</p> |
| | <p>Its special feature is:</p> |

The pitch

Tommy had to persuade his managers that Colossus could crack the German code.

Write down three things to convince people that your machine is a good idea.

| |
|---|
| 1 |
| 2 |
| 3 |