



Module One - Finding all Possibilities

Focus Lesson Two: Robot Workshop

- Launch the Robot Workshop on your IWB or screen and in 'Explore' build and photograph a few robots.
- Ask your students if they can see the rules of the system - what has to happen for a robot to be built and photographed? It's pretty simple. It needs to have one head, one body and one set of feet/wheels (bottom)
- Invite students to come and create robots for the photo album.
- When there are several robot photos, show your class the album for a moment before hiding it. Ask your students if anyone thinks they can add a robot that is different to all the others in the album, or if they can duplicate one they saw.
- When your students are comfortable with how the robot building system works, click and show them the challenge. Can they design a system to show how many robots can be built with these parts?
- Hand out the activity sheets and let your students have 10-15 minutes to create their system.
- Come back together and share systems:
 - Whose look similar?
 - Are there any systems that are completely different to what your class has seen before with their ice cream systems?
 - Can students explain their system to a partner?
 - Does anyone have a system that is like no one else's?
- If there is time you might like to click on Random Robot Parts and create another challenge for your students, or hand out some task cards for them to explore.