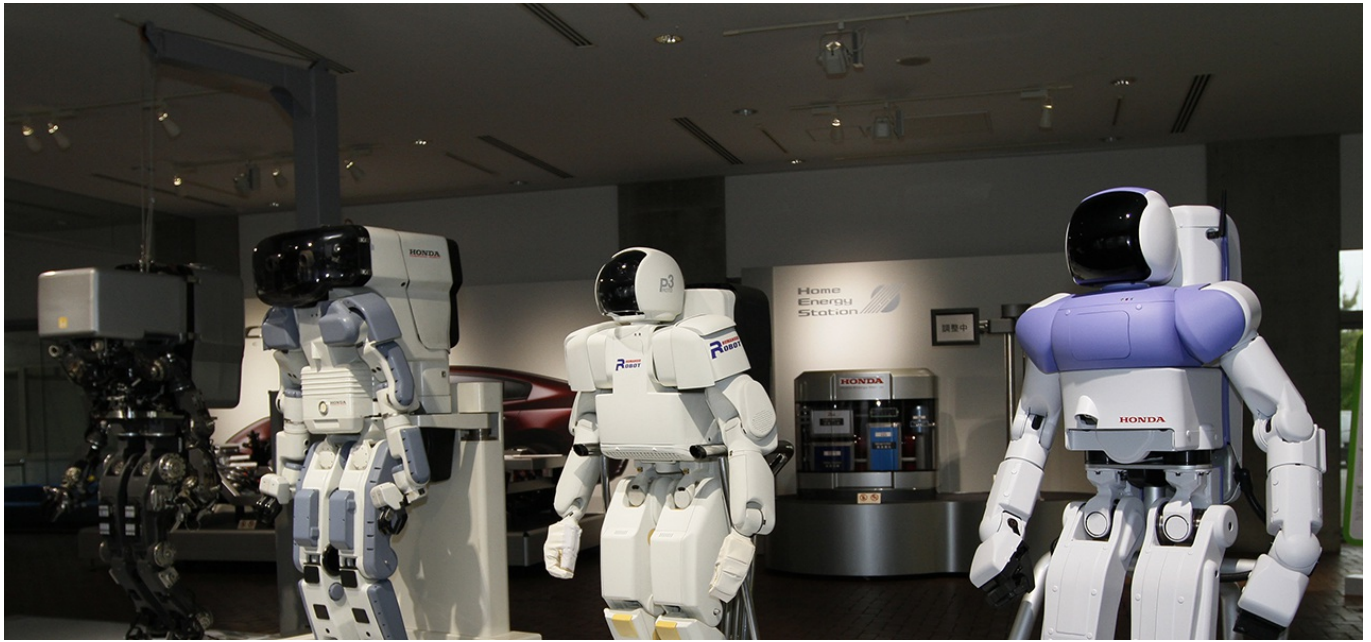


Creativity

Robot Buddies



Years 1 & 2

Your students will work in groups to design and build a robot using craft materials. They will learn about the properties of different materials and consider which materials they should use to build their robot. Your students will practise striving for accuracy as they design and build new objects and write instructions for others to follow. They will practise thinking creatively and imaginatively as they use the Combination Key and the BAR key.

Rationale

Learning about the design process encourages us to consider how we use objects in our lives and how we can select materials to design and build new objects.

Essential questions

- How can I write clear instructions?
- What are the properties of different materials?
- How can I design and build new objects?

Glossary

accuracy, builder, cardboard, circle, combine, creative, felt, instructions, manager, materials, paper, pipe cleaner, plasticine, play dough, programmer, rectangle, ribbon, robot, square, straw, stick, tools, traits, triangle

Rich assessment task

Your students will work in groups to design and build a robot using craft materials. They will select a personality trait for their robot and draw a diagram of what their robot will look like. Your students will learn about the properties of different materials and identify which materials they will use to build their robot. They will write three programs for their robot to perform tasks in an imaginary bedroom. Your students will create a poster advertising their robot and present their poster and their robot at the Creativity Expo at the end of the unit.

Future action

Your students will develop a curiosity about robots and programming. They will consider the purpose of different objects that they use in their everyday lives and how the objects have been designed and built. Your students will strive for accuracy when they are writing and drawing and providing instructions. They will be reminded to think creatively as they use their Creativity Journal.