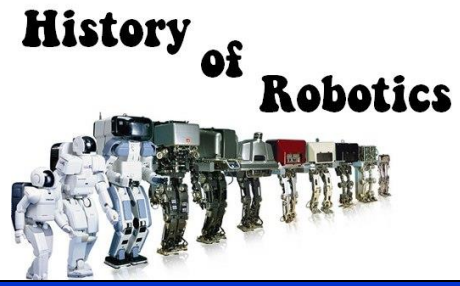
John Emmerson Batty Primary School Knowledge Mat

Year 6: DT – (Britain 1948) – CODING, TRANSPORT INVENTIONS

Subject Specific Vocabulary

algorithm	is a detailed step-by-step instruction set or formula for solving a problem or completing a task
program	a series of coded software instructions to control the operation of a computer or other machine E.g. robot
vinyl	A form of gramophone record that was stamped from a lump plastic material and is used to play music
wireless	An older word used to describe a radio which plays sound and music using radio waves
miniaturisation	the process of making something very small using modern technology e.g. how telephones have become smaller and thinner and more mobile
input	This is data that a computer receives.
robot	a machine that does tasks (after being programmed) without the help of a person.
robotics	This is the area of science that concentrates on learning about and creating robots or machines that can do work.

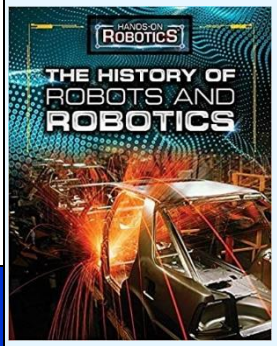
Memorable Image

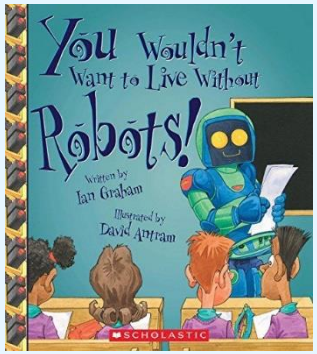


Sticky Assessment Knowledge

- ☐ I know how to program a robot to follow a route
- ☐ I know how to create an algorithm which uses a number of inputs.
- ☐ I know who invented the bicycle.
- ☐ I know who invented the car.
- ☐ I know who invented the aeroplane
- ☐ I know who invented the train.
- ☐ I can explain the main changes in Britain since 1948 and the reasons for them.

Exciting Books





Useful Websites

What is an algorithm? - BBC Bitesize

https://youtu.be/3JNiRPMPAiY
YouTube about programming Lego Mindstorms EV3

Misconceptions and Facts

- A robot is an artificial agent, meaning it acts as a replacement for a person, doing things it is designed for.
- Robots are usually machines controlled by a computer program or electronic circuitry. They may also be directly controlled by humans and are sometimes designed to look like humans, in which case their behaviour may suggest intelligence or thought.
- Most robots do a specific job, and they do not look like humans. They can come in many forms.