

#NationalCodingWeek



Design a robot

Get creative and think like an engineer & computer scientist to design a robot that could help overcome a real-world problem

Design criteria.....

Draw or build your robot using anything to hand.

Label and describe the key features/special parts of your robot.

Include a description of how it will operate.



Did you know.....

The word 'robot' comes from the Czech word 'robota'.

Robots are operated using computer programs and can be programmed to carry out a variety of tasks.

The first industrial robot 'Unimate' was invented in the 1950s by George Devol.

Robots can be used to explore where humans cannot, an example is the Mars Rovers. Over the years NASA has sent several of these robotic vehicles to explore Mars and send back information.

The study of robots is known as robotics.

Some things to think about.....

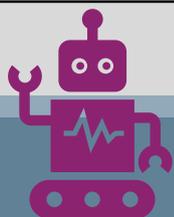
- What do you want your robot to do? Who do you want your robot to help?
- What environment will your robot be working in?
- How will it operate? What will it be programmed to do?
- What special parts will it need to carry out its role? (For example sensors, the ability to move, the ability to move objects).

Submit your design & receive a

Ask your teacher/parent/carer to take a photo of your design and send to ambassadors@debp.org to receive your certificate

You can also share on Twitter with hashtag #NationalCodingWeek and tag in @STEM_HUBNMSEY

Thank you!



We hope you have fun!

#NationalCodingWeek



Create a Scratch Animation

Get creative and use your programming skills to create a scratch animation

Getting started.....

To create you animation you will need to open & create a scratch project at

<https://scratch.mit.edu/>

If you are stuck for ideas why not try some of the ready to go scratch animation projects that are available:

- [Animate your name](#)
- [Animate a character](#)
- [Create an animated story](#)



Did you know.....

The first computer programmer was a female named Ada Lovelace.

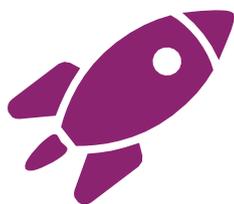
The first computer game was created in 1961, it didn't make any money!!!

It took less code to send a man to space than to run a smartphone.

There are lots of different coding languages that computer programmers use to write computer programs.

New to coding?.....

Learn how to program you own animation with the raspberry pi 'Lost in Space' project by clicking [here](#)

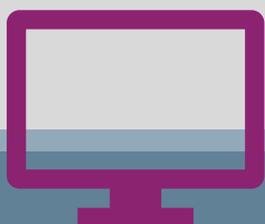


Submit your animation & receive a certificate for taking part.....

Ask your teacher/parent/carer to send your animation to ambassadors@debp.org to receive your digital certificate.

You can also share on Twitter with hashtag #NationalCodingWeek and tag in @STEM_HUBNMSEY

Thank you!



We hope you have fun!

