Resources – National Coding Week

Here is a list of some of our resources including those to loan and links to websites with lots of fun activities and projects. Visit the **National Coding Week website** for more ideas.

Our resources	
Spotlight on STEM Podcasts	Audio interviews with some of our STEM Ambassadors and other employer volunteers. The following have links to computing, programming or the digital sector: • **Chris Powell, Research Director** • **Anna McGrogan, Digital Marketer Lead** • **Christabel Goode, Environmntal Acoustic Consultant** • **Jennifer Hall, PhD student**
Our resources for loan anytime of year! **Email ambassadors@debp.org for more info or to book**	
Astro Pi	Astro Pi is the name of a small computer developed by the Raspberry Pi Foundation, in collaboration with the UK Space Agency and the European Space Agency (ESA). **Age 10-14 (suitable for a community/school code club)**
Lego Mindstorms Education EV3	Through real-life STEM challenges and engaging physical and digital creation, EV3 encourages participants to develop 21st century skills through coding as they program solutions in a real-world context. **Age 10+ (2-6 participants per kit, STEM Clubs only)**
Lego/K'Nex	Our normal Lego and K'Nex kits allows participants to explore and help unlock their creative building skills. **Age 6+ (max 5 participants per box)**
Lego WeDo 2.0	WeDo 2.0 basic programming and coding. It makes primary school science and computing come to life through hands-on tasks, real-world projects, and relevant technology that engages participants. **Age 7+ (maximum 5 participants per kit)**

Websites we'd recommend	
Blocky Games	A series of seven **games** designed to teach programming to children. Games include Puzzle, which is an introduction to Blockly, Bird, which teaches conditionals.
Code Club	Code Club is a global network of free coding clubs for 9- to 13-year-olds. They have a range of **step by step guides** for coding projects, which can teach how to create games, animations and more with code.
CoderDojo	CoderDojo is a global volunteer-led community of free programming workshops for young people between 7 and 17. They have a range of **projects** to do using scratch, python etc.
	The Hour of Code started as a one-hour introduction to computer science, designed to demystify "code". It now takes place each year during Computer Science Education Week but it can be run and **activities** used all year round.
Kodu Game Lab	Game development platform with lots of **lessons**.
Microsoft MakeCode Arcade	Develop programming skills by quickly creating retro arcade games with Blocks and JavaScript in the MakeCode editor. Lots of **tutorials** to choose from.
Microsoft Maker Champion	Complete **digital skills projects** and collect badges as activities are collected.
Raspberry Pi	Raspberry Pi aims to put the power of computing and digital making into the hands of people all over the world. They have tons of fun **step-by-step project guides**.

Scratch	With Scratch, you can program your own interactive stories, games, and animations. There are lots of **resources** for educators.
#STEMtogether	The new STEM Inspiration scheme run by GE called **#STEMtogether** was originally launched as a pilot in April. Worksheet week 12 (cracking code) would be fantastic for National Coding Week. The scheme will also be relaunched this academic year with new projects (including two specifically focusing on coding) and further worksheets.
VEXcode VR	Learn Computer Science without a robot. **VEXcode VR** lets you code a virtual robot using a block based coding environment powered by Scratch Blocks.
YouTube Videos	
Alan Turing	Here are a couple of videos about Alan Turing, who created complex code breaking technique. The first is a short simple video and second more in-depth. **History Who's Who?** **Crash Course Computer Science**

We regularly share information on our resources and other resources we recommend via our website **www.debp.org** and via our social media channels. Please follow us.

We hope you find them useful!