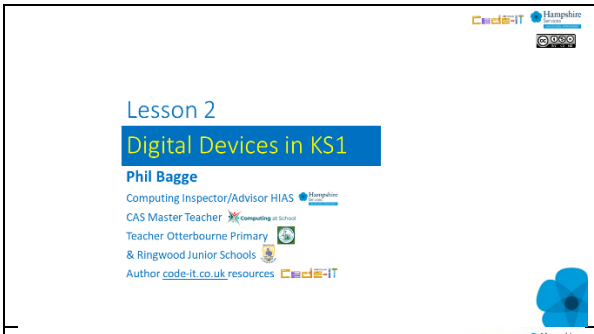
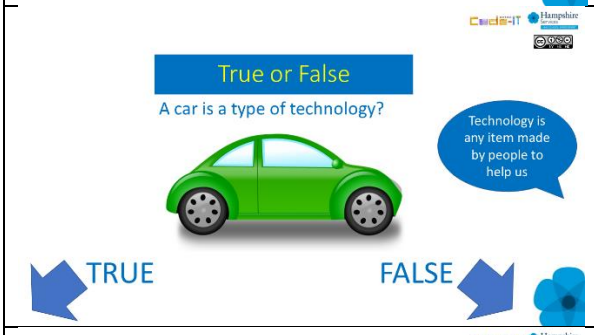
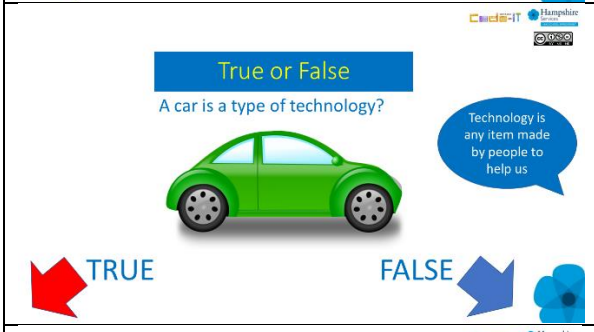
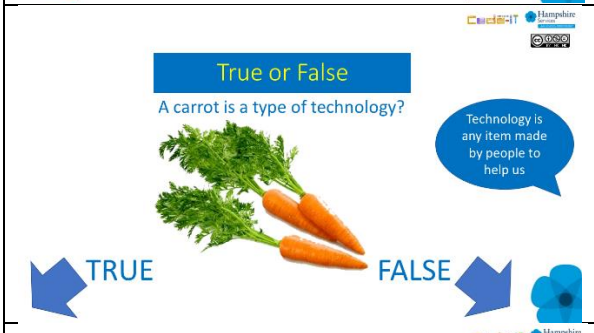
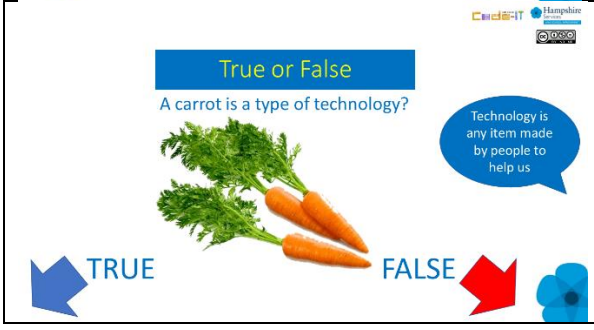
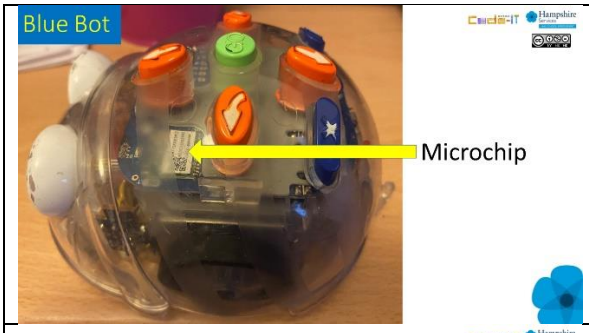
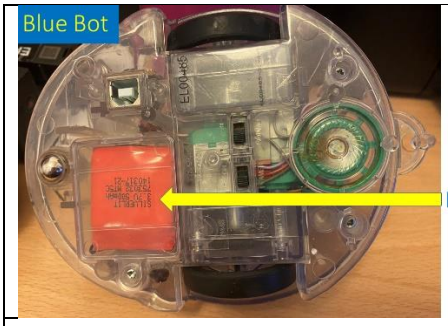
Digital Devices Lesson 1 Slide Notes

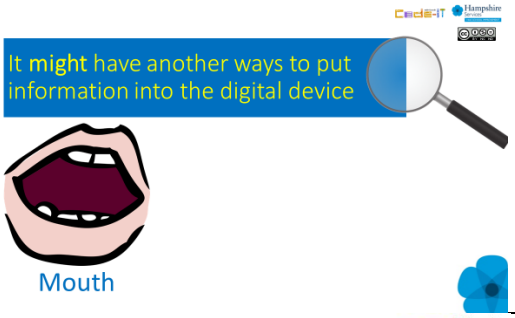
	This lesson is all about how to spot digital technology. Before we do that lets see how much you have remembered from last lesson?
	*Teacher Note* *Pupils can vote with their feet by moving to one side of the classroom or the other or lower their head and raise their hand if they think it is true* True or false is a car a type of technology?
	Yes, it is People have used what they have learnt about metals, glass and rubber to make something useful
	True or false is a carrot a type of technology?
	No, it is not Carrots are natural and grow in the ground. People might have planted the seed, but they did not make the carrot.

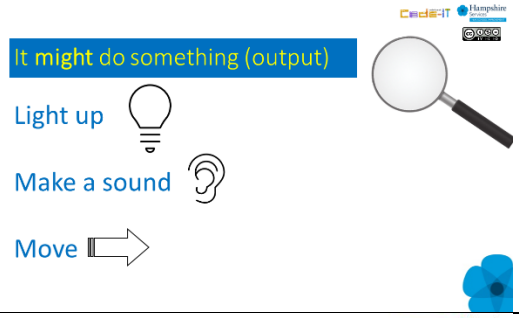
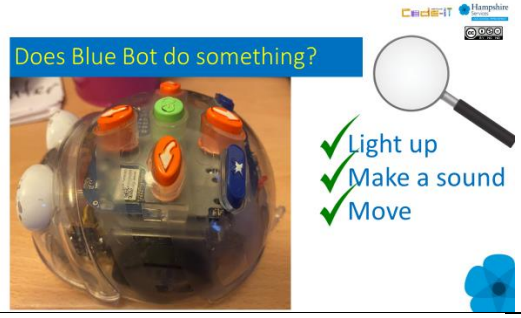
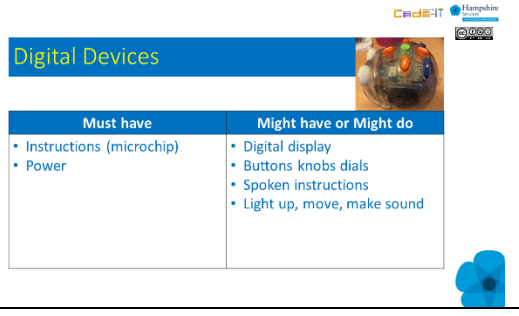
What are instructions? Instructions tell us what to do **Instruction in school** • How to come into school • How to tidy up Can you think of any more?	Instructions tell us what to do. You have instructions where to line up and how to come into school. Can anyone tell me what they are? After an activity how do we tidy up? Can you think of any more instructions we follow at school?
What are instructions? Instructions tell us what to do **Instructions at home** • How to brush your teeth • How to put your clothes on Can you think of any more?	Now let us think about instructions at home. Can anyone tell me about any instructions your parents or guardians tell you?
Follow the instructions? Instructions tell us what to do Stand up Wave Bow Sit down	Can you follow these instructions as I read them out?
What is digital technology? Digital technology is technology that has a set of instructions inside it that make it work 	Digital technology is technology that has a set of instructions inside. These are held on a microchip. Microchips are very small.
We can not look for these? Very small We must NOT break the device to find it They can be connected by electrical wires **DANGEROUS** 	Unfortunately, we can't look for microchips as we would have to break the digital technology to find them. It might also be plugged in which would make opening it very dangerous as we might get a shock.

BY NC ND

	However, we can look inside Blue-bot from the outside. Can you see the Microchip? Pass it round. Can you see its little legs where it is attached to Bee-bot? The instructions are kept in there.
	Most digital technology does not have a see-through cover, so we need other ways to see if it is digital. Shall we learn about other clues?
	All digital devices need power. This could be plugged in, or it could be battery powered.
	If it is a battery these can come in many shapes or sizes.
	Let us see if Blue-bot has a battery? Look carefully.

	Well done You found it
	Some digital devices not all have a digital display. These might be numbers or letters or even a screen with picture.
	Let us see if Blue-bot or bee-bot has a screen?
	No, it does not. We did say only some digital devices would have a display screen.
	It might have ways to put information into it such as buttons, knows, dials or keys.

	Let us look to see if Blue-bot or Bee-bot has buttons, knows, dials or keys.
	Yes, it has buttons
	You might also talk to a digital device to put information into it. Do you have a digital device you talk to at home?
	Some of you might have used or seen your parents or guardian use an Alexa or Hey google or Siri. These all listen to humans and follow some of the instructions they say.
	Can we put instructions into Ble-bot or bee-bot by talking to them?

	No, we can't
	It might do something. We call these outputs The most common are Moving Sound Lighting up
	Does Blue-bot Light up Make a sound Move
	Yes it does all three
	let's go over what we have found out. It must have power and instructions It might have a display, buttons. Knobs, dials, keys It might accept spoken instructions It might move, light up & make a sound

	Hand out the labels in small groups or pairs. Can pupils find technology in the room and test it for these things? You could also do this as a class collecting your findings on the board