Tamar Computing
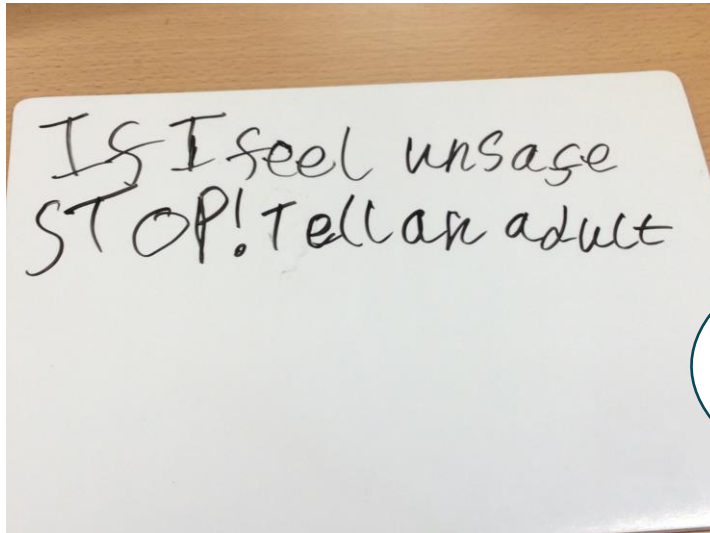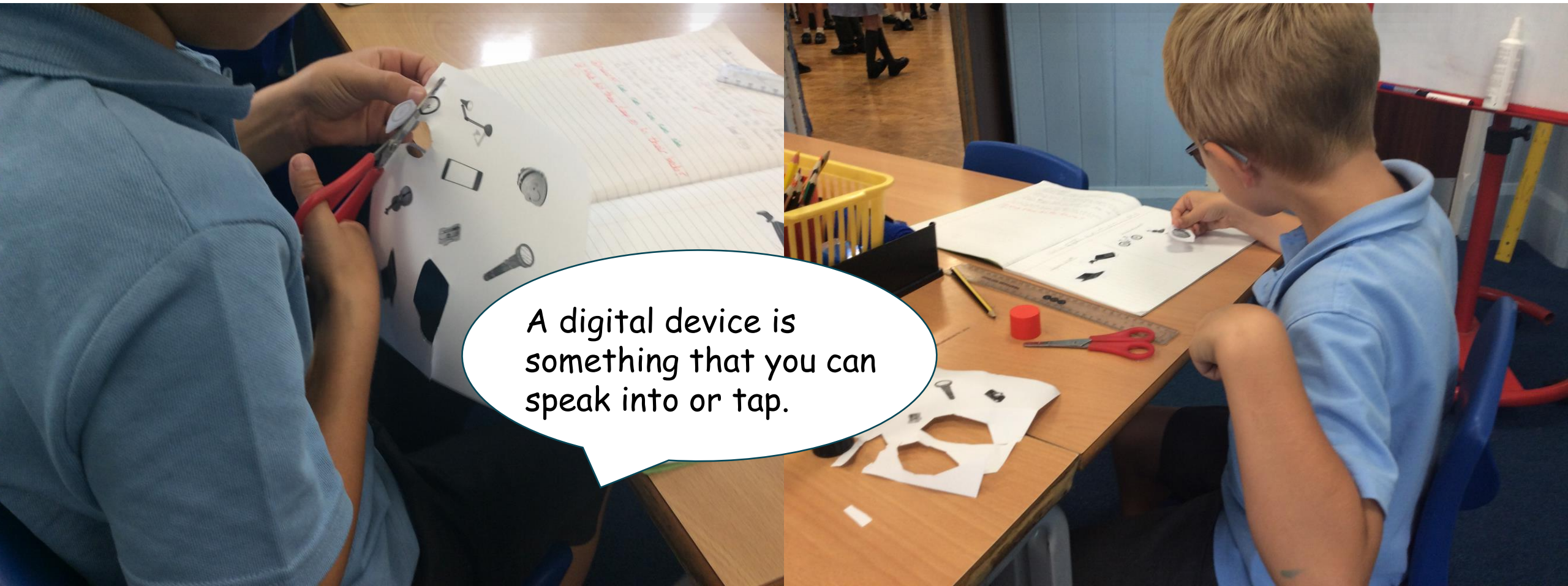
Autumn 2023

I can explain how computers are connected.

We first reminded ourselves of how to stay safe when online. If we feel unsafe, STOP and TELL an ADULT.

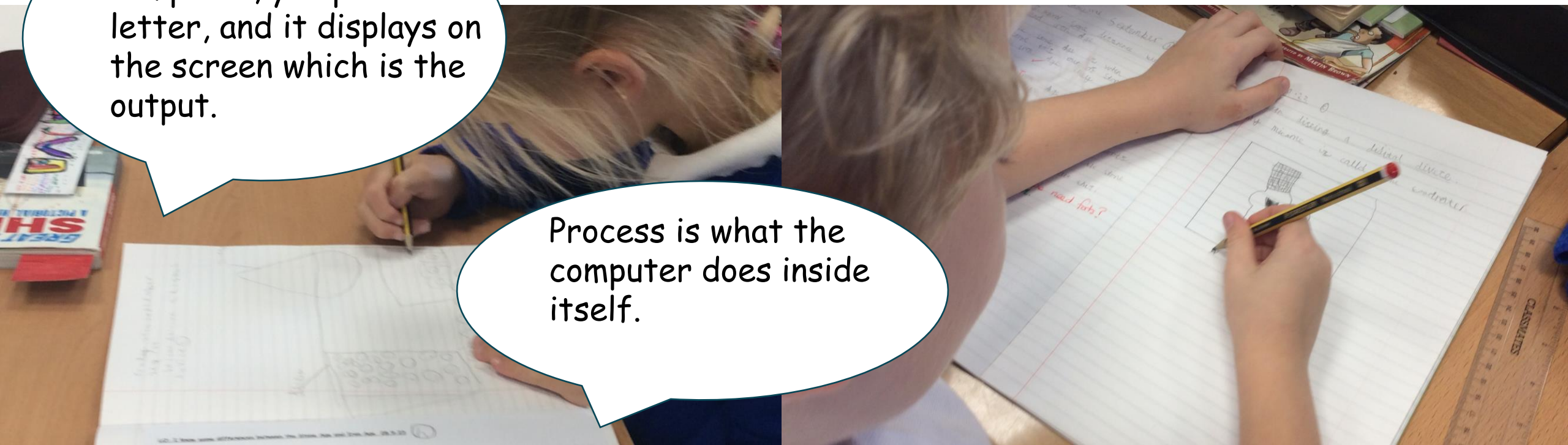# We then thought about how digital devices work and classified them as digital and non digital.
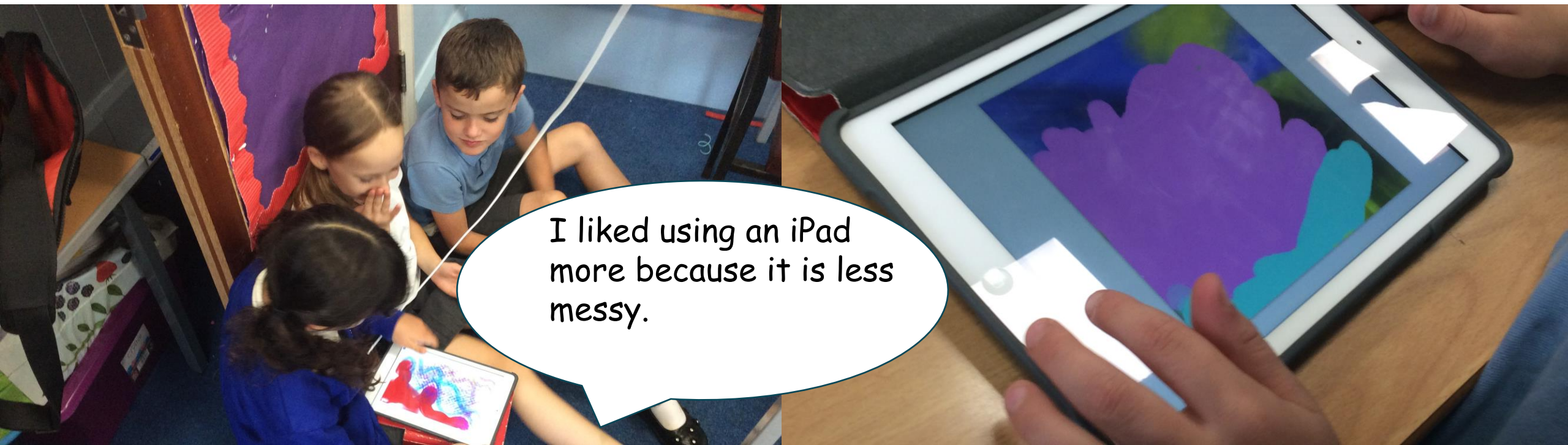

A digital device is something that you can speak into or tap.

We found out that digital devices have inputs, outputs and processes.
We designed our own digital device using these.

Input, say on a computer, you press a letter, and it displays on the screen which is the output.

Process is what the computer does inside itself.

How do digital devices help us? We used iPads and an art app and compared it to painting with a paintbrush on paper.

I liked using an iPad more because it is less messy.

These are our thoughts about using an iPad compared to Paint brushes.

Good things

Fun

Easier

Makes paintings better

You can edit and change it

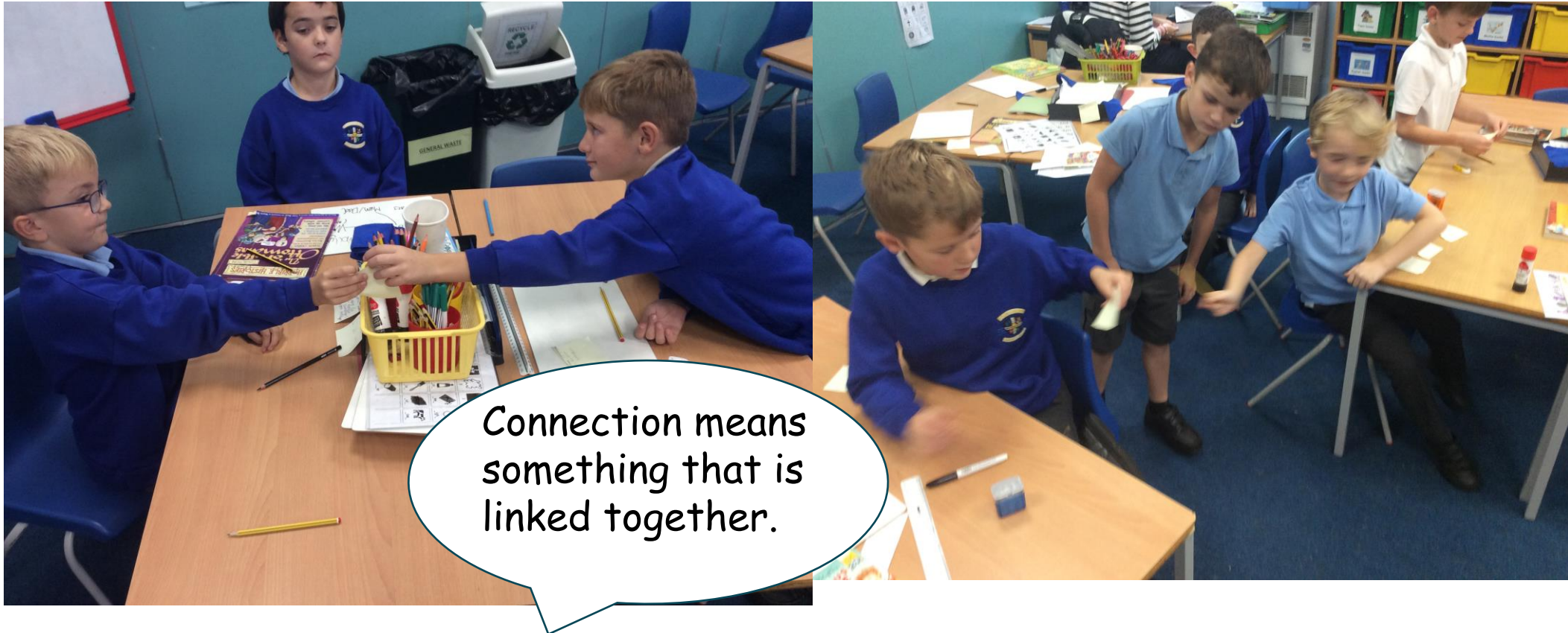Mix colours

Problems

Only a big brush

Can't do what I want to do

Didn't work

Paint lasts

You can keep it and show it.

We thought about how we are connected to our friends and family. We used Post it notes and passed them around the classroom to make connections. We used 2 children as switches which made the connections faster.

Connection means something that is linked together.

We finally looked at computer connections. We went and looked at the server, network switch and wireless access points. We found out that everyone's work is kept on the server.

There were lots of wires on the network switch.

Computing   FLE 3/4   How do computers use inputs, processes and outputs ?

Personal development

Children know what to do if they feel unsafe on a digital device. They are aware that networks are part of everyday life.
Exposed to possible jobs in IT and network systems.

Forever Facts

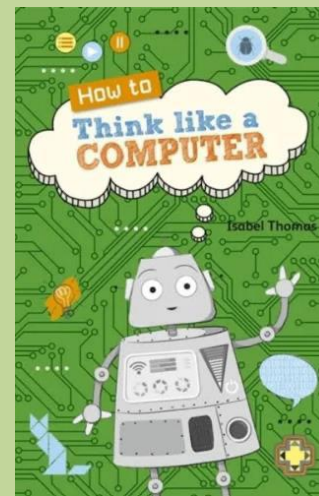| If I feel unsafe on a digital device I will stop and tell a trusted adult. |
| --- |
| That digital devices accept inputs and outputs. |
| That there are similarities between nondigital and digital devices. |
| That computer networks are made up of multiple devices. |

What I have learnt before:
Internet safety, how the internet works, Scratch.

Exciting Books

How to Think like a COMPUTER
Isabel Thomas

Our Endpoint

I can explain how computers are connected.

Subject Specific Vocabulary

Online Safety	ways of keeping safe when using digital technology.
Input	putting information into a computer.
Output	lets the user see or hear the results produced by a computer.
Process	actions taken by a computer as a result of an input.
Network	a series of digital devices joined together including the internet.
Digital device	an electrical device that can receive, store, process and send digital information.
Connections	The links between digital devices.