

Resources

Prompt slides for children
Input output worksheet

Prior to lesson

You will need to be familiar with the inputs and outputs of a range of digital devices and you will need an understanding that devices can have one input which leads to several outputs (e.g. starting a video leads to outputs from the screen and the speaker) and that many inputs can lead to one output (e.g. using a mouse and keyboard to produce a document).

Assessment

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Self | <input type="checkbox"/> Questioning |
| <input type="checkbox"/> Peer | <input type="checkbox"/> Formal |
| <input type="checkbox"/> Talk Partner | <input type="checkbox"/> Class tick list |

Modelling/input

Use first slides to review work last week on input, outputs and devices.
Sort objects using Venn diagram into inputs/outputs. Remember some devices can be both (cable is neither).
Task: match input to device and to output.
Design a digital device from prompt.

Year 3: Step 2 What parts make up a digital device?

Plenary/Mini Plenary

Learners could show their inventions either to each other or to the whole class.
Encourage learners to explain the input, process, and output of their inventions. Highlight correct use of terminology.

Keywords

Digital device, input, output, process

Assessment Opportunities

Activity 1: Learners can demonstrate that they are able to classify input and output devices
Activity 2: Learners can demonstrate their understanding of the relationship between inputs, processes, and outputs on existing digital devices
Activity 3: Learners can demonstrate their understanding of the relationship between inputs, processes, and outputs by inventing their own digital device
Conclusion: Learners can demonstrate their understanding of the relationship between inputs, processes, and outputs by sharing their invention and explaining how it works

LO: To identify input and output devices

Steps for Success

I can classify input and output devices
I can describe a simple process
I can design a digital device.

Online safety

Select an activity from the Online Safety resources.