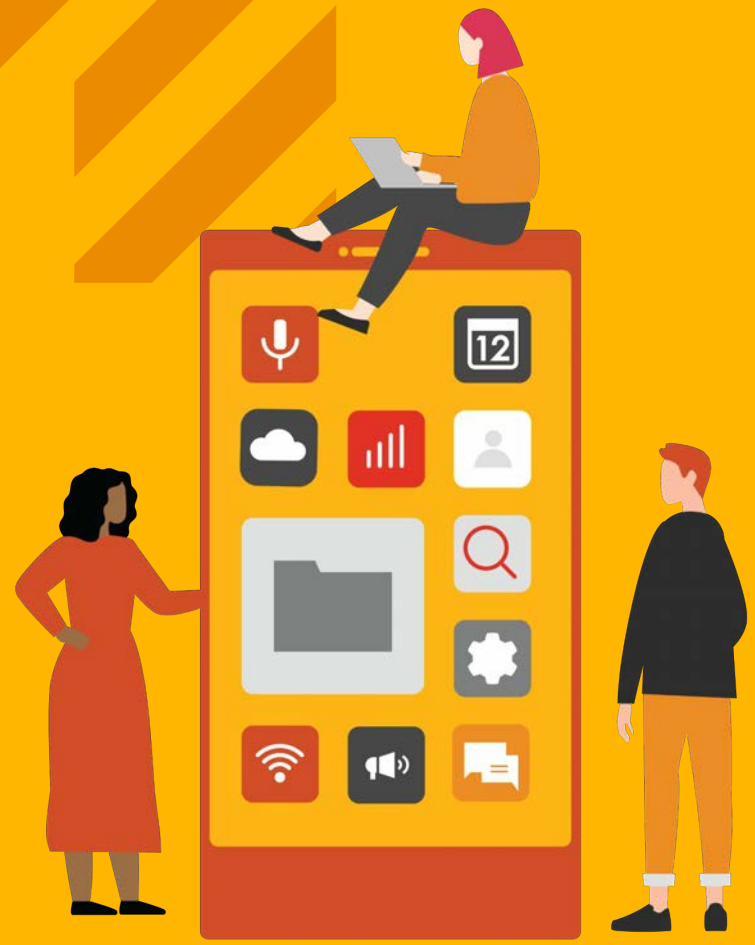
Technology Skills Curriculum

Lesson 2: Technology Foundations - What is a Computer?



Agenda

Let’s get started

1. Getting started: What Problems Do Computers Help You Solve?
2. Main activity: Computer or Not? Present Your Categorisations
3. Wrap-up: Reflection and careers reflection

Objectives

You will:

- Develop a definition of a computer
- Provide a high level description of the model of a computer

01

Getting started:

What Problems Do Computers Help You Solve?

What Problems Do Computers Help You Solve?

You could consider:

- The ways that apps, companies, or governments might collect data. What ways to collect data are you already aware of?

What is a computer?

- Computers are clearly an important part of our lives and help us solve all kinds of problems.
- We will think more about the kinds of problems computers help us solve, but first let's think about an important question.

Group introduction and sharing ideas

Task:

- In groups of 3 or 4, draw a line down the middle of your poster. Label one side "Computer" and the other "Not a Computer"
- Discuss as a group which of the objects in your set (from the activity guide) belong in each category.
- Once your group is in agreement tape your objects to the appropriate side
- Develop a list of characteristics your groups used to determine whether an object is a computer
- Be ready to share your reasons for categorising with the class!

Computer	Not a Computer

02

Main activity:

Computer or Not? Present Your Categorisations

Present Your Categorisations

Each group briefly present your posters. You should discuss:

1) What rules or definition did you use to categorise your objects?

2) Which item was most difficult for you to categorise? How did you eventually make the decision of where to place it?

Remember to **respectfully listen** and **question any categorisations** if you disagree with the presenting group's decisions.

Definition of a Computer

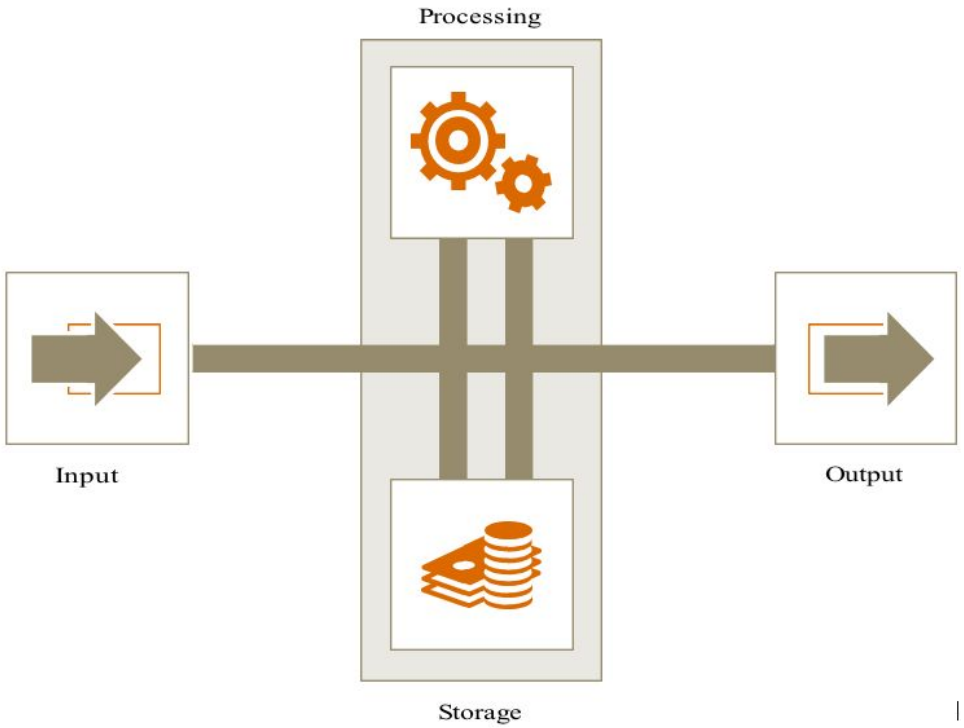
As you can see, it's not always clear whether something is a computer, and even experts sometimes have different points of view.

Watch this video.

How do they define a computer?

Revise your posters using the definition you have just learned

- Be ready to share if you changed your mind about whether something was a computer?
- What about the definition convinced you?



03

Wrap-up:

Reflection and careers reflection

Wrap up and Reflection

Today you've had a chance to look at a definition of a computer that focuses on how the computer solves problems. We've also seen many different types of computers.

Reflection question: Think of a problem that a computer can help you to solve.

- What is the problem?
- What information is input to the computer?
- What information does the computer store?
- What information does the computer process?
- What information does the computer output?

What employability skills have you developed in this session?

Leadership	Business minded	Technical capabilities	Global acumen	Relationships
• Teamwork • Problem solving • Decision making	• Quality in everything you do • Improvement • Thinking commercially	• Your knowledge of potential jobs you could apply for • What have you done you are proud of • Ability to learn	• Seeking new perspectives • Sharing ideas • Coping with change • Open minded	• Communication skills • Building relationships • Working with others

Want to find out more? What might your next steps be in learning more and thinking about your career?

Keep up to date: PwC Podcast - spotify - A-Z of tech: A is for Artificial Intelligence, B is for Blockchain, C is for Cyber Security. Follow our journey through an alphabet of technology trends with PwC's technologists and special guests.

Opportunities in tech: You might be interested in technology opportunities at university or in the workplace. Lots of companies and universities have opportunities. **Here are some at PwC:**

- 5 day paid work experience ‘Insight Weeks’ for Year 12 students.
- Technology Degree Apprenticeships and Data Science Graduate Apprenticeships.
- School and College Leaver Apprenticeships at PwC

Some of the Technology Teams at PwC that you could research:

Thank you

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