

Evolution

Prior Knowledge

Reception - Children recognise that a range of technology is used in places such as homes and schools.

Year 1 - Recognise common uses of information technology beyond school.

Year 2 - Use technology purposefully to create, organise, store, manipulate and retrieve digital content.

Year 3 - Use sequence, selection, and repetition in programs.

Year 4 - Understand computer networks including the internet.

Future Learning

Year 6 - Design, write and debug programs that accomplish specific goals



My Component Knowledge:

Lesson 1: I can explain that computer systems communicate with other devices.

Lesson 2: I can identify tasks that are managed by computer systems.

Lesson 3: I can explain that data is transferred over networks in packets.

Lesson 4: I can send information over the internet in different ways.

Lesson 5: I can compare working online with working offline.

Lesson 6: I can explain how the internet enables effective collaboration.

My Composite Knowledge:

I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.

My Powerful Knowledge:

Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.

Key Vocabulary

Tier 1: input, connection, digital, reuse.

Tier 2: system, process, output.

Tier 3: remix, collaboration, packets.



What is a system?

How do systems transfer messages through packets?