



Key Knowledge, Vocabulary and Questions

Computing: Computing Systems and Networks – IT Around Us / Creating Media – Digital Photography

Year 2

Key knowledge



- Identify examples of information technology and how they are used.
- Know some uses of information technology outside school.
- Understand that using information technology has benefits.
- Explain how to use information technology safely.
- Recognise that choices are made when using information technology.
- Know how to make digital photographs.
- Know how photographs can be improved.
- Know that photographs can be changed after they are taken.



Key vocabulary

Information technology	Using computer systems for storing, changing, finding, and sending information.
Online safety	Staying safe on the internet.
Digital device	A computer or device with a computer inside that has been programmed for a specific task
Digital Camera	Used to take electronic pictures. Either a whole device or part of a device.
Lighting	Affects the colour in a photograph.
Zoom	Used to make a photograph bigger and smaller on the screen.
Filter	Can be used to change a photograph after it is taken.

Digital Device



Digital Camera



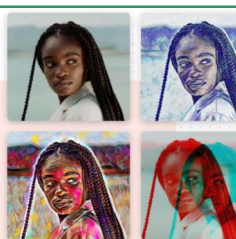
Lighting



Zoom



Filter



Online Safety



Key questions

- 1 Can you name some examples of information technology?
- 2 Can you give examples outside school?
- 3 How does information technology help us?
- 4 What rules can you tell me to help us use computers safely?
- 5 Which devices could be used to take photographs?
- 6 What do you need to think about before taking a photograph?
- 7 How could you change a photograph after it is taken?

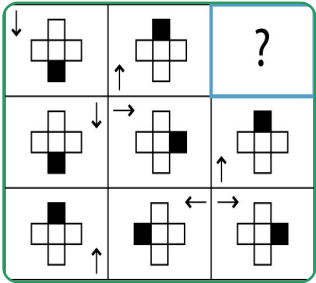


Key Knowledge, Vocabulary and Questions

Computing: Programming A – Robot Algorithms / Data and Information - Pictograms

Year 2

Key knowledge



- Know which commands to use to move a robot.
- Use logical reasoning to predict the outcome of a program.
- Understand that to correct a program we need to debug.
- Know that we can present information using a computer.
- Know that objects can be counted using a tally chart.
- Know that objects can be represented as pictures.



Key questions

- 1 Which commands would you use to move a robot?
- 2 Where does this code move the robot?
- 3 What is wrong with this program?
- 4 What attributes do these objects have in common?
- 5 How could you show this information on a computer?
- 6 What is a tally chart?
- 7 Can you use one to count these objects?
- 8 What is a pictogram?
- 9 Can you use one to count these objects?
- 10 Which commands would you use to move a robot?

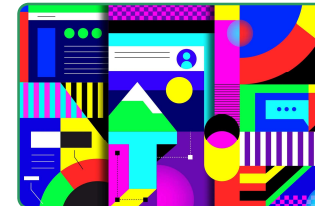
Key vocabulary

Task	What is needed?
Design	What it should do?
Code	Instructions that set out how the task is done.
Execute	Starts the program. Same meaning as run.
Algorithm	A precise set of steps to achieve a task. (Recapped from Y1)
Debug	Correcting mistakes within a program. (Recapped from Y1)
Common	Such as colour, size, or price. (Common to more than one object)
Attribute	Chart with marks (grouped in bunches of 5) used to count.
Tally Chart	Chart with pictures used to represent objects.
Pictogram	What is needed?

Execute



Design



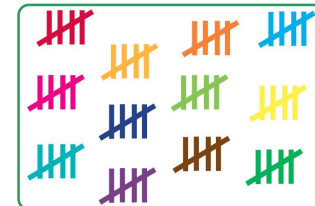
Code



Debug



Tally Chart



Pictogram

FRUIT	NUMBER OF CHILDREN WHO CHOSE IT
PEAR	
WATERMELON	
ORANGE	
APPLE	
BANANA	

