

What is coding?

Date: _____

Instructions: Look at the picture of the blocks. Fill in the puzzles using the answer bank (a grown-up can read the words aloud). Read the Did you know? box. Number the 4 steps in order, tick True or False, match each word to its meaning, then write short answers.

1. Block puzzles

Answer bank: **blue** **bottom** **sprite** **yellow**

Question	Answer
A block that moves the sprite is coloured...	
A block that starts the code is coloured...	
Blocks run from the top to the...	
A character on screen is a...	

About this topic

A computer is clever, but it cannot guess. It only does what we tell it. The list of instructions we give it is called code, and writing code is called coding or programming. A person who writes code is a coder or programmer. Games, apps, cartoons and robots all run on code.

Did you know?

- The first programmers wrote code on paper cards with holes punched in them.
- Your tablet runs millions of lines of code.
- A robot vacuum follows an algorithm to clean a room.



Coding with blocks

2. Put the steps in order

Write 1 to 4 in the boxes (1 = first).

- ☐ Break it up: Split the job into small steps
- ☐ Run: Press go and watch what happens
- ☐ Think: Decide what you want the computer to do
- ☐ Code: Turn each step into a block or a line of code

3. True or false?

A computer can guess what you mean.	☐ True	☐ False
Code is a list of instructions.	☐ True	☐ False
Blocks snap together like bricks.	☐ True	☐ False
The order of steps does not matter.	☐ True	☐ False

4. Match up

Write the letter of the right meaning in the box.

Code	A. A character or object that your code moves.
Algorithm	B. Instructions written for a computer.
Sprite	C. A finished set of code that does a job.
Program	D. A list of clear steps in the right order.

5. Short answers

- What is a sprite?

- Draw or name one thing that runs on code.

- What is the first step when you get dressed?

- Explain in your own words: Explain what code is, in your own words.

- Stretch: Why must instructions for a computer be clear and in order?

