

**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: **false** **no** **stop** **yes**

| Question                                         | Answer |
|--------------------------------------------------|--------|
| If hungry then eat. Tayo is hungry. Does he eat? |        |
| If cold then coat. It is hot. Coat?              |        |
| A condition is true or...                        |        |
| Red light means...                               |        |

### About this topic

Programs can make choices. "If it is raining, then take an umbrella." The part after if is a condition : a question with a yes or no answer, true or false. If the answer is yes, the code inside runs. If it is no, the code is skipped.

## Did you know?

- Automatic doors use an if: if someone is near, open.
- Games check hundreds of conditions every second.
- Yes and no are called true and false in code.



If blocks

## 2. Put the steps in order

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

- ☐ Yes: Decide what happens if it is true
- ☐ Test both: Try a yes case and a no case
- ☐ Question: Write the yes or no question
- ☐ Code: Use if, else or elseif

## 3. True or false?

|                                      |                               |                                |
|--------------------------------------|-------------------------------|--------------------------------|
| A condition is a yes-or-no question. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| Both if and else run at once.        | <input type="checkbox"/> True | <input type="checkbox"/> False |
| Green light means go.                | <input type="checkbox"/> True | <input type="checkbox"/> False |
| Computers cannot make choices.       | <input type="checkbox"/> True | <input type="checkbox"/> False |

## 4. Match up

Write the letter of the right meaning in the box.

| Condition |  | A. The answer no.                           |
|-----------|--|---------------------------------------------|
| True      |  | B. A yes-or-no question in code.            |
| False     |  | C. Runs code only when a condition is true. |
| If        |  | D. The answer yes.                          |

## 5. Short answers

1. Finish: If it is dark, then...

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2. Colour the light that means stop.

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3. Make an if rule for a cat sprite.

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4. Explain in your own words: Explain what a condition is, in your own words.

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\_\_\_\_\_

5. Stretch: What does else do?

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