

Key Vocabulary

sequence	A particular order in which related events, movements, or things follow each other.
command	An authoritative order.
route	A way or course taken in getting from a starting point to a destination.
prediction	To guess what might happen using information.
debug	To identify and remove errors from computer hardware or software.

Key Facts

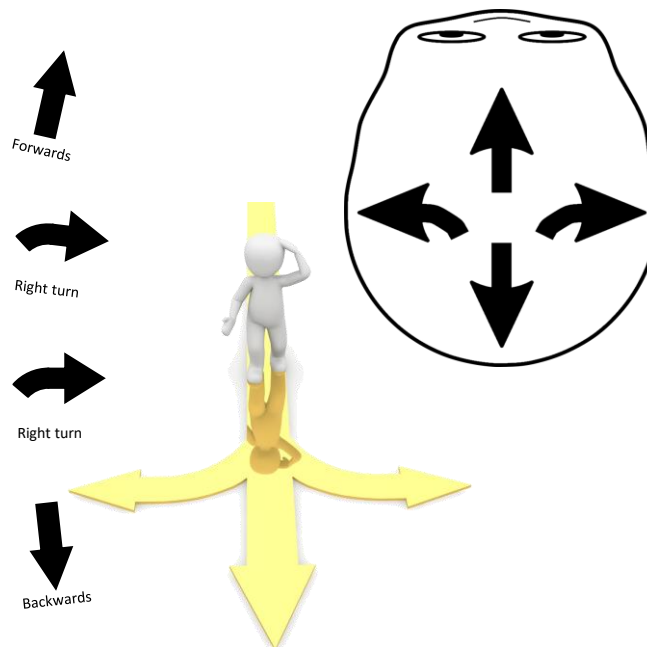
- We use instructions every day, such as when we go to the bathroom or when we learn. Computers also need instructions and the order in which we give them instructions is very important.
- Robots need be given directions such as forwards or backwards. When we use multiple directions, this is known as a route.
- Sometimes, the order or instruction can be wrong. We can check this through a process called 'debugging'. This is where we can identify problems.

Key Questions

- Why is order important in an algorithm?
- What happens if I don't debug a program?
- Can I change a sequence of commands?

Links to other Learning

- Year 1 - Programming B
Moving a Robot
- Year 3 - Programming B
Sequence in Music
- Year 4 - Programming B
Repetition in games
- Year 5 - Programming A
Selection in physical computing
- Year 6 - Programming B
Sensing



Famous Computer Scientists

Victor Sheinmen



Victor Sheinmen was an American inventor of robotics. He created a robotic arm, known as the Stanford Arm. It was used to help students study manipulation tasks and chain assembly.