

LO To write an accurate algorithm
(sequence of instructions) so that
sandwich bot will make a jam
sandwich

To know that all computer programs
are sequences of instructions

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Adapted from '[Tea Bot](#)' an Idea by [Dan Gardner](#) that he uses with his KS3 pupils. I added a programming language and changed the context. Please use and modify as you see fit.

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Must

Write a set of instructions to program the robot to make a jam sandwich

Should

Learn from your own and others mistakes (bugs) and correct them

Could

Write a fully working set of instructions with no bugs

Right Hand	spread	butter	fast
Left Hand	scoop	tub	repeat
Pick up	packet	bread	hard
Press down	knife	slice	soft
cut	blade	plate	forward
Put down	handle	turn	back
hold	jam	top	put
unscrew	jar	bottom	Table
remove	lid	slow	Surface

Right Hand	put down	bread	handle	tub	bottom	hard
Left Hand	hold	slice	jam	plate	slow	soft
pick up	unscrew	knife	jar	packet	fast	forward
press down	remove	blade	lid	put	repeat	back
cut	spread	scoop	butter	turn	top	

Always start from either right or left hand

Join the words you want to use with a line

This one reads

Right hand pick up knife handle

Teachers Notes

- Briefly outline LO and must, should, could expectations
- Pupils write instructions on whiteboards or paper or use the [SEN joined words sheets](#).
- Pupils take it in turns to sit on a chair in front of robot teacher and give instructions
- If pupil fails encourage them to go back and debug their code
- Teachers need to be pedantic to encourage accuracy