

Student notes

Sustainable Futures: Rover's amazing journey



Hi I'm Rover

Can you show Rover the way to the dock?

Where is the dock?

D
O
C
K

What to do

Help Rover to find the fastest way home.

Rover only knows how to do **Rover commands** such as:

go forward	FWD
go back	REV
turn right	RIGHT
turn left	LEFT

You have to tell rover *exactly* what to do.

Make me smart

First steps... easy



Little steps first

Beam me up

D
O
C
K

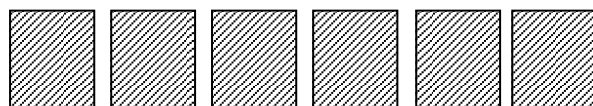
What to do

To make Rover hear *rover commands* you need to say *gobsub* first.

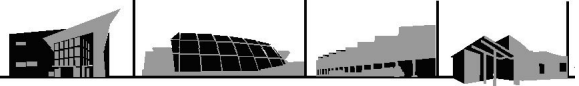
Rover commands
gobsub FWD
gobsub RIGHT

How far does Rover move when you say **gobsub** FWD?

Listen to your teacher to find out how to send me rover commands



Moon rocks

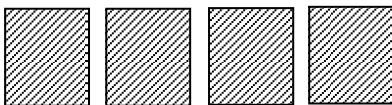


Next steps... still easy



You can do this

One small step for me but one giant leap for you



What to do

Write down the rover commands you would like to send Rover.



Write on your own paper for more lines

Send the commands to Rover and see if it works.

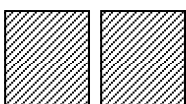
Can you get Rover to the dock faster? See if you can.

Big steps... not so easy



Yes you can

I like to moon walk



What to do

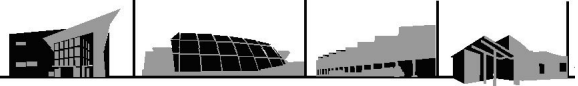
Write down the rover commands you would like to send Rover.



Make me dance when I reach the dock.

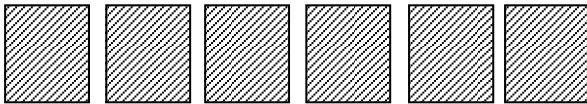
Send the commands and see if it works.

Can you get Rover to the dock faster? See if you can.



DOCK

I like to moon walk



What to do

Design your own challenge by placing the blocks in any of the grid squares. Write down the rover commands you would like to send Rover.

See all the commands I know below.

Send the commands and see if it works.

Rover commands

What I can do

Want	How to send command	What I do
Forward	gosub FWD1 gosub FWD2 gosub FWD3 gosub FWD4 gosub FWD5 gosub FWD6	Move forward the number of unit squares
Back	gosub Rev	Reverse or go backwards
Turn	gosub Right gosub Left	right turn left turn
Turn forward or backward	gosub FwdR gosub FwdL gosub RevR gosub RevL	forward right forward left reverse right reverse left
Rest time	Wait 1 Wait 10 Wait 0.5	Wait 1 second Wait 10 seconds Wait 0.5 seconds
Spin	gosub SpinC gosub SpinCRand gosub SpinAC	spin clockwise spin random clockwise spin anticlockwise
Stop	gosub StopAll	stop everything
Slow	gosub FwdSlow gosub RevSlow	forward slow at half speed reverse slow at half speed