



CURRICULUM OUTLINE RAPID ROUTER

A Guide for Rapid Router

RAPID ROUTER

UNIT 1

GETTING STARTED

- Can you help the van get to the house?
- This time the house is further away
- Can you make the van turn right?
- You are getting good at this! Let's try turning left
- Good work! You are ready for something harder
- Well done! Let's use all three blocks
- This road is more complicated
- The warehouse is not always in the same place
- Can you go from right to left?
- Well done! How about another go?
- Snail maze!
- This road is more complicated
- Random: Try your hand at a random level.

UNIT 3

LOOPS AND REPETITIONS

- Repeating yourself is boring
- Use the Repeat block to make your sequence shorter and simpler
- Four leaf clover
- Now things are getting quite long and complicated
- Ssssssssnake!
- The road is very long and very bendy
- Waterfall level
- Winter wonderland!
- Farmyard
- The big city
- Random: Try your hand at a random level.

UNIT 2

SHORTEST ROUTE

- Multiple routes
- Can you spot the shortest route?
- What if there is more than one delivery?
- This time there are even more houses
- House overload!
- This one is quite a tangle
- Random: Try your hand at a random level.

UNIT 4

LOOPS WITH CONDITIONS

- No need for numbers
- Can you do that again?
- Practice makes perfect
- Uh oh, it's Until fever!
- Random: Try your hand at a random level.

UNIT 1

IF... ONLY

- Now it's time to try the If block
- Multiple ifs
- Let's put it all together!
- What else? If-else, that's what!
- A bit longer
- Third time lucky!
- Dead ends!
- Adjust your previous solution
- Decision time
- What do you think this time?
- Good work! What else can you do?
- Random: Try your hand at a random level.

UNIT 3

LIMITED BLOCKS

- Back to basics with a twist
- A Bit more Tricky
- Choose your blocks wisely
- Round and Round
- Wonky Fish!
- Concrete Wasteland
- This is not... the same
- Snow snake
- Tricky turnaround
- Right around the block

UNIT 2

TRAFFIC LIGHTS

- Oh no! Traffic lights!
- Green for go, red for wait
- Well done - you've made it really far!
- What a mess! But can you spot a route?
- Put all that hard work to the test
- Amazing! Have another go!
- Light maze
- Random: Try your hand at a random level.

UNIT 4

PROCEDURES

- Can you create the 'Wiggle' procedure?
- Lots of Traffic Lights!
- Wiggle Wiggle
- Muddy Patterns with Phil
- Complicated roads
- Dee's snowy walk
- Crazy Farm

UNIT 1

BLOCKLY BRAIN TEASERS

- T - time
- Duck pond dodge
- Winter wonderland
- Frozen challenge
- Can Wes Find his lunch?
- Traffic light freeze up!
- Pandemonium
- Kirsty's maze time
- Cannot turn left!
- G Force
- Wandering Phil
- Muddy Mayhem

UNIT 1

INTRODUCTION TO PYTHON

- Here's Python!
- Matching Blockly
- Don't forget to find the shortest route
- Repeating yourself in Python looks different
- Repeat and watch
- Looks easy but use repeat until and see what happens?
- See what the if blocks looks like in Python
- Don't forget to use else if
- See what happens when you add Traffic lights
- Watch carefully as you have another go
- Have a go at procedures - what do they look like in Python?
- Put it all together

UNIT 2

TRAFFIC LIGHTS

- Start with the basics, forward, left and right
- Keep it simple
- Take the shortest route
- Count and repeat
- Count and repeat is easy
- Loop the loop
- Repeat and check
- Find a general solution
- Watch out for the dead end!
- Function or Junction?
- Watch for the patterns
- Patterns within patterns
- Can you see the repeating pattern?
- Find the shortest route
- Spiral and add
- Spiral and double
- Think less
- Final challenge!