



Hallcroft Infant & Nursery School

Computing Knowledge Organiser



Autumn 1 - Year 2

Route Explorers & The Internet

What we already know, remember and can do:

- Know digital tools can be used to group images of items.
- Know sorting is a way to organise items.
- Know data is information that can be collected and used.
- Know that to achieve a specific effect when building something, accurate instructions must be followed.
- Know that computer programs need precise instructions to follow and these are called algorithms.
- Know that the order of instructions for a task affects the results.
- Know that debugging is correcting errors in an algorithm or program.
- Know that computer programs work by following instructions called algorithms.
- Know each single instruction is called a command.
- Know that to make an algorithm happen, you must execute, or run, the code.
- Know that debugging is the name for fixing code that isn't working
- Know that it is important to keep passwords safe.
- Know that it is important to log out at the end of a session.
- Know an avatar is a virtual representation for online use.
- Know that online sites have a main page called the homepage.
- Know that technology is used within many environments.
- Know the importance of using technology safely and give examples.

	Learning Objective	Knowledge What children will know	Skills What children will do	Revisited Vocabulary	New Vocabulary
1	Route Explorers 1 Set Fairytale Land and City Challenge as a 2Do. Learning Objective To know how to use units of distance along with the direction keys in 2Go to move along a route.	✓ To know the combination of a direction and a distance is known as a command. ✓ To know that planning a route is important in order to input the correct commands.	✓ To work out how far a character needs to move in 2Go. ✓ To combine the use of the direction keys and distances to make a character move along a chosen route.	Direction Command	Route
2	Route Explorers 2 - Set Fairytale Land and City Routes 2 as a 2Do. Learning Objective To write instructions to complete more than one step of a route at once.	✓ To know the combination of a direction and a distance is known as a command. ✓ To know that planning a route is important in order to input the correct commands. ✓ To know a list of instructions for a route is the algorithm.	✓ To think about more than one step at a time when planning a route in 2Go. ✓ To understand that this is how the algorithm for the route is designed. ✓ To use ideas to write the code to move a character more than one step at a time along a route.	Direction Command Route	Algorithm Coding

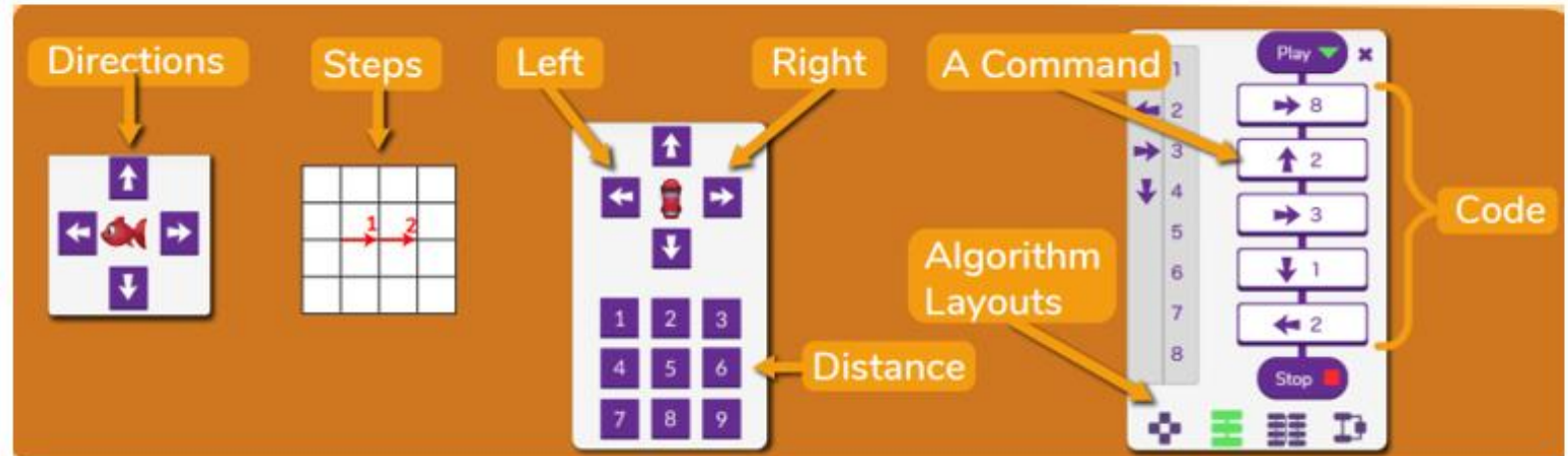
3	Route Explorers 3 - Set Treasure Story Route as a 2Do. Learning Objective To build up instructions for a longer route.	✓ To know that errors occur because commands may have been inputted incorrectly. ✓ To know that fixing errors is called debugging.	✓ To create longer programs by testing a few steps at a time and editing my code. ✓ To debug my code and fix errors.	Algorithm Coding	Computer Bug Debugging
4	The Internet 1 - Set My Internet Journey as a 2Do. Learning Objective To create a placing game in 2DIY.	✓ To know the Internet is a global network of connected computers around the world. ✓ To know a browser is used to access websites and webpages.	✓ To describe what the internet is. ✓ To describe what the World Wide Web is. ✓ To give examples of browsers. ✓ To understand that the internet connects people and information all around the world.		Internet World Wide Web Browser
5	The Internet 2 Learning Objective To understand the difference between a website and a webpage and to use a school website to find information.	✓ Know a browser is used to access websites and webpages. ✓ Know webpages have links that, when clicked, display other webpages.	✓ To recognise that there may be people online who could make someone feel sad, embarrassed or upset. ✓	Internet World Wide Web Browser Information Wi-Fi	Website Webpage Home Page Link
6	Being Safe in a Digital World – Self-Image & Identity - Set Guess My Avatar as a 2Do. Part 1 - Learning Objective To explain how other people may look and act differently online and offline. Set Getting Help as a 2Do. Part 2 - Learning Objective To give examples of issues online that might make someone feel sad, worried, uncomfortable or frightened. To give examples of how they might get help. ✓	✓ To know that some people may look or act differently when online. ✓ To know how to get help if something upsets or worries them when online.	✓ To explain how other people may look and act differently online and offline. ✓ To give examples of issues online that might make someone feel sad, worried, uncomfortable or frightened. ✓ To give examples of how they might get help.	Avatar Image Behaviour	Identity



Year 2 Computing – Autumn 1 – Route Explorers, The Internet & Self-Image and Identity

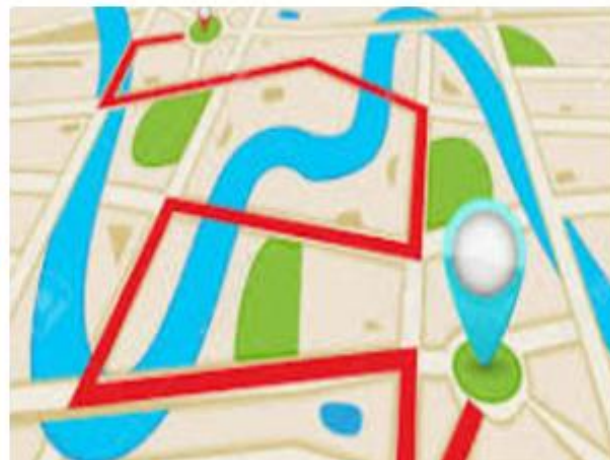


The combination of a direction and a distance is known as a command.



Planning a route is important in order to input the correct commands.

Errors occur because commands may have been inputted incorrectly.



A list of instructions for a route is the **algorithm**.



Fixing the errors is called debugging

The Internet is a global network of connected computers around the world.

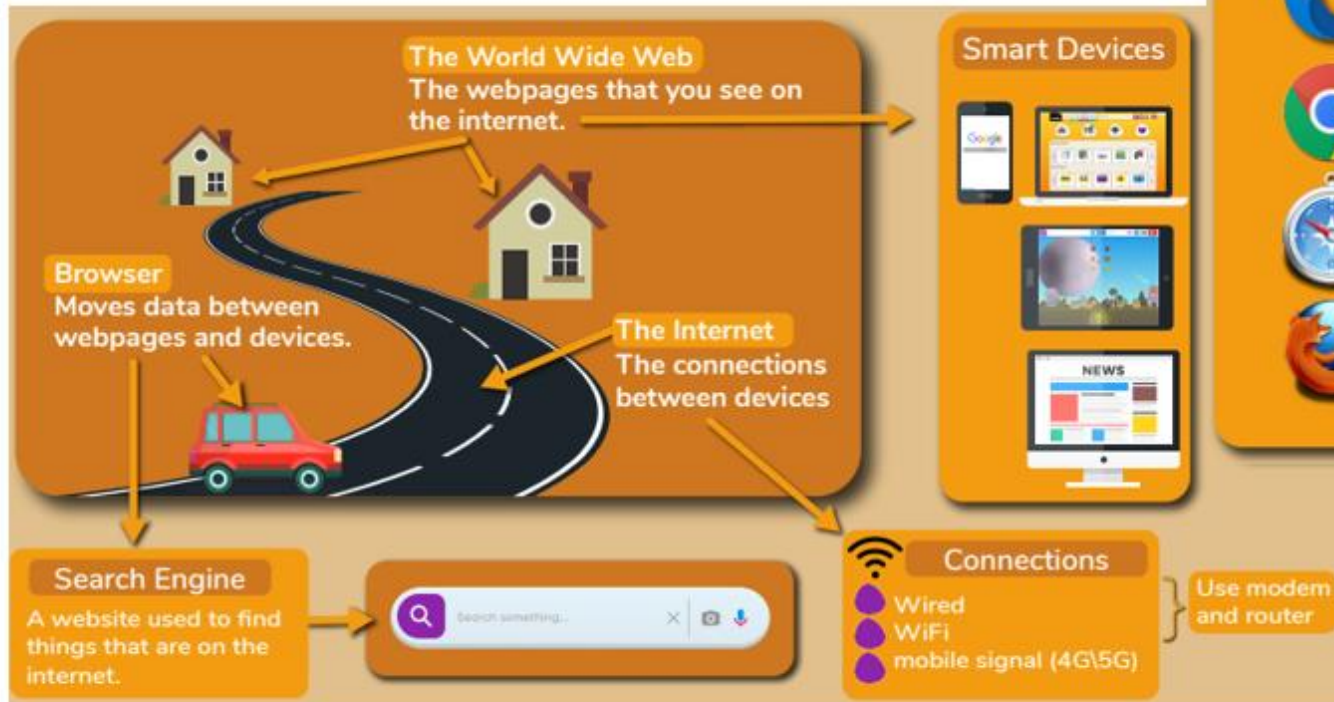
A browser is used to access websites and webpages.

Browsers

Programs to access the World Wide Web.



Some people may look or act differently when online.



Webpages have links that, when clicked, display other webpages.



I can get help if I am worried or upset by something online.

