	Computing Subject knowledge, discipline and vocabulary Year 1 Spring	
Unit	Moving a Robot	Grouping Data
Previous Learning		
Subject Knowledge (what)	**Understanding computer programming.** NC: - *Understand what algorithms are; how they are implemented as programs on digital* - *devices; and that programs execute by following precise and unambiguous instructions* - *Create and debug simple programs* - *Use logical reasoning to predict the behaviour of simple programs* - *Recognise common uses of information technology beyond school* • Robots follow a clear (fixed) command in a precise and repeatable way. • Commands need to be precise. • Clear memory buttons are used before a new program. • At times, programs need to be debugged. • The same outcome can be achieved through multiple approaches. • Programmers need to plan what they want to achieve before starting programming.	**Understanding how data can be grouped and organised** NC: - *Use technology purposefully to create, organise, store, manipulate, and retrieve digital content* - *Use technology safely and respectfully* • Objects can be counted • Information can be presented • Information can be presented in different ways • Collected data can be counted • Objects can be grouped according to common attributes
Subject Discipline (how)	• Make predictions about the outcome of commands. • Make comparisons between different movements. • Plan and program sequences. • Experiment with move and turn commands. • Use problem-solving to identify potential solutions.	• Identify some attributes of an object • Collect simple data • Describe the properties of an object • Choose an attribute to group objects by • Group objects to answer questions • Objects can be grouped by similarities (attributes) • Describe a group of objects (based on a commonality)

Key Vocab	• **Forwards** • **Backwards** • **Turn** • **Clear** • **Go** • **Commands** • **Instructions** • **Directions** • **Left** • **Right** • **Plan** • **Algorithm** • **Program** • **Route**	• **Object** • **Label** • **Group** • **Search** • **Image** • **Property** • **Colour** • **Size** • **Shape** • **Value** • **Data set** • **More** • **Less** • **Fewest** • **Most** • **Same**