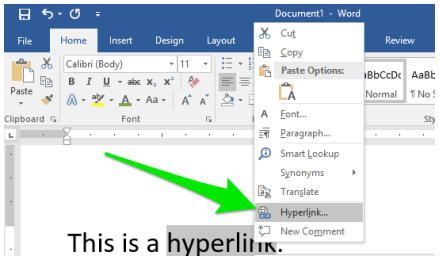
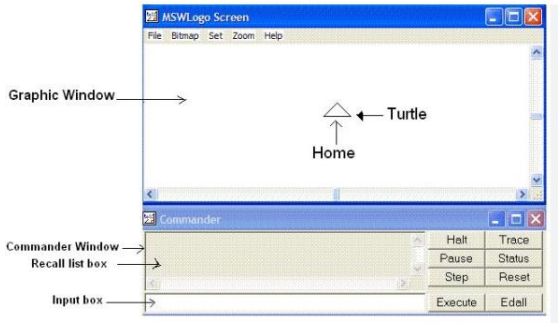
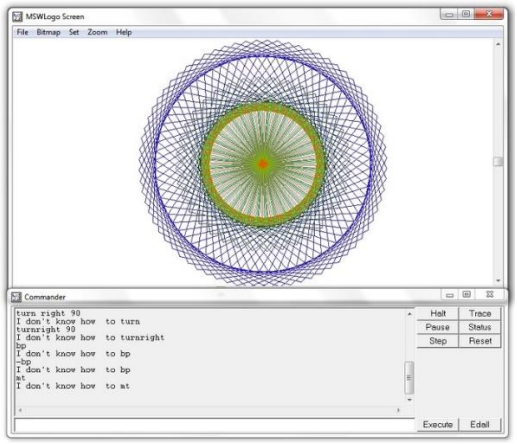
Year 4 Autumn 1: Computing Knowledge Mat

Digital Literacy

Key Vocabulary		Images/ diagrams	Core Knowledge
Hyperlink	A link from a text document to an online page or document.		➢ To know that a hyperlink can take you directly to the world wide web. ➢ To know that information is not always reliable. ➢ To understand that key words can help search safely on the internet. ➢ To know that not all online images should be used. ➢ I can identify personal information that should be kept private. ➢ I can use appropriate tools to collaborate online. ➢ To use various sources to find information and consider reliability.
Keyword	A significant word that helps make a search more accurate online.		
Network	A system of devices that are connected online.		
Personal Information	Information that can identify an individual and often should be kept private.		
Age-Appropriate	Content and information that is relevant and safe for people of a certain age.		

Year 4 Autumn 2: Computing Knowledge Mat

Computer science

Key Vocabulary		Images/ diagrams	Core Knowledge
Debug	Finding and removing existing and potential errors.		➢ To create a program in a text-based language ➢ To explain what 'repeat' means ➢ To modify a count-controlled loop to produce a given outcome ➢ To create a program that uses count-controlled loops to produce a given outcome ➢ To develop the use of count-controlled loops in a different programming environment ➢ To explain that in programming there are infinite loops and count controlled loops ➢ To develop a design which includes two or more loops ➢ To design a project that includes repetition ➢ To create a project that includes repetition
Program	A set of ordered operations for a computer to perform.		
Repetition	Programming parts of a computer program to loop.		
Loop	A computer process that happens twice or more continuously.		
Algorithm	A procedure used for solving a problem or performing a task.		
Computer science	Using computer technology to complete a given goal-oriented task.		

Year 4 Spring 1: Information Technology Knowledge Mat

Computing systems and networks

Key Vocabulary		Images/ diagrams	Core Knowledge
Data	Information that is usually converted into a digital form.		➢ I know how to choose a data set to answer a given question.
Data Set	A collection of data that provides information about a subject.		➢ I know that data is collected over time.
Data Logger	A device that collects raw data from a subject.		➢ I know that sensors are input devices.
Sensor	A device that responds to a physical stimulus such as light or sound.		➢ I know how to identify that data from sensors can be recorded.
Interval	A set amount of time when data is not collected.		➢ I know how to interpret data that has been collected using a data logger.
Interpret	To look at and discuss data and what we can learn from it.		➢ I know that a computer program sorts data.
Reliable / Unreliable	If data can be trusted and used as evidence or not.		➢ I know how to use a computer to view data in different ways.