Computing – Year 5

Autumn 2 – Artificial Intelligence

Grove School

In this unit I will learn

- Artificial intelligence (AI) is technology that can make decisions based on information.
- Machine learning is a type of AI.
- Machine learning systems learn from examples rather than being given every instruction.
- AI can recognise patterns in data.
- AI can be trained to make predictions and classifications.
- AI is used in many everyday technologies.
- AI can be helpful but it also has limitations.
- Different AI systems make decisions in different ways.
- Digital assistants use AI to respond to questions and commands.

Key Knowledge

- AI systems need data in order to work.
- Machine learning systems improve by learning from examples.
- AI recognises patterns that humans may not notice easily.
- AI can make predictions but does not think like a human.
- AI is used in many technologies that people use every day.
- AI can be useful, but it is not always correct.
- Humans are responsible for creating, training and using AI systems.

Key Vocabulary

Artificial Intelligence (AI)
Technology that can make decisions or complete tasks using information.

Machine Learning
A type of AI that learns from examples and data.

Data
Information that can be collected and used by a computer.

Pattern
Something that repeats or can be recognised in information.

Prediction
A decision or educated guess based on patterns in data.

Classification
Sorting information into groups or categories.

Training
Providing examples to help an AI system learn.

Model
The system created when an AI has learned from data.

Algorithm
A set of instructions followed by a computer.

Digital Assistant
An AI tool that responds to spoken or typed requests.