

Year 2 - Algorithms unplugged - HT2

Key Vocabulary

Abstraction	To pick out the important information.
Algorithm	A clear set of instructions to carry out a task.
Artificial intelligence	Computers that can perform the tasks that humans normally do.
Bug	An error or mistake in computer code.
Correct	Free from mistakes.
Data	Information used for a specific purpose or investigation.
Debug	To fix the error in code.
Decompose	To break something down into smaller chunks.
Error	A mistake.
Key features	Important parts of something.
Loop	A repeated sequence of instructions.
Predict	To make a guess.
Unnecessary	Not needed.

Abstraction: Key information

Remember to **take spare clothes**, including t-shirts, trousers, a coat, underwear and a hat. There will be a lot of **wet weather** in the rainforest, so wrap up to stay dry.

You might hear lots of animals, such as monkeys and parrots. **Keep close to the adults** and be careful where you step.

Do not forget to **take a drink and a snack**.

Decomposition: Smaller chunks

List for the rainforest:

- Take spare clothes
- Wet weather
- Keep close to the adults
- Take a drink and a snack



Zooming into an Australian rainforest on Planet Earth.



Algorithm for making a hot chocolate:

1. Fill the kettle with water
2. Boil the water
3. Fill a mug with the boiled water
4. Add a teaspoon of cocoa powder
5. Add a drop of milk
6. Stir well



To know statements



To know how to write a creative algorithm planned for the dinosaur game and explain what decomposition means

To know how to write clear and precise algorithms that can be understood by another person

To know how to create algorithms to solve problems and begin to use loops to make their code more efficient

To clearly explain what abstraction is and create a plan which can be identified as a particular location through clear landmarks or a key

To know how to perform a task with an understanding of what debugging is and identify incorrect steps within an algorithm.

What can you remember from previous units?

Can you remember how to program a Bee-Bot?

What is an algorithm?

What are step-by-step instructions?

Anything else you have learnt? What have you enjoyed?