

**Computing**  
**International Space Station - Year 2 / 3**



Year 2/3 - Woodpeckers - Summer 1

What do I already know? I can log in and use a mouse; I can understand and know how to represent data.

**Enquiry Questions**

How can computers help humans survive in space?

How can we create a digital drawing?

What is the role of sensors on the International Space Station?

Can we create an algorithm for growing a plant in space?

How do we interpret data?

**Key Vocabulary**

**Artificial Intelligence** - Computers that can perform the tasks that humans normally do.

**Astronaut** - Someone who is taught to control a spacecraft.

**Bug** - An error or mistake in computer code.

**Data** - Information used for a specific purpose or investigation.

**Debug** - To fix the error in code.

**Digital Content** - Information and media such as videos or pictures stored on a computer.

**Error** - A mistake.

**Essential** - absolutely necessary and extremely important.

**Experiment** - To trial and test new ideas.

**Galaxy** - A system of millions or billions of stars, their solar systems, gas and dust.

**Interactive Map** - A digital map which can be searched, zoomed in or out of.

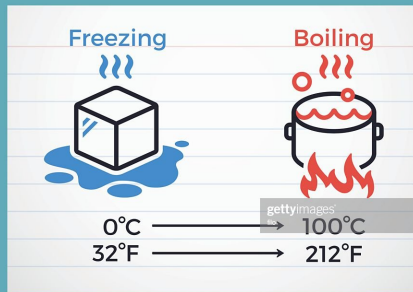
**International Space Station** - A laboratory in space that orbits the Earth.

**Insulation** - Covering something to stop heat, sound or electricity from escaping or entering.

**Key Skills (National Curriculum)**

**Pupils should be taught to**

- 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.



**Interpret** - Explain the meaning of something to someone else or yourself.

**Key Features** - Important parts of something.

**Monitor** - To check the status of something.

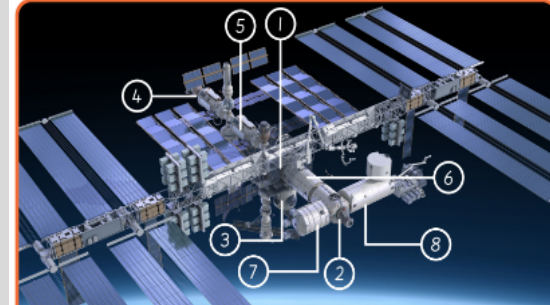
**Satellite** - A computer that orbits the Earth to provide information or communication.

**Survival** - To stay alive in bad conditions.

**Space** - A vast area around and beyond Earth which is not inhabited.

**Sensor** - A device that is designed to monitor, detect and respond to changes.

**Thermometer** - A device that measures and displays the temperature using a scale.



1	Node 1 (Unity)	Connects U.S. and Russian modules of the I.S.S.
2	Node 2	Connects the American, European and Japanese modules.
3	Node 3	Sleeping and resting area.
4	Zvezda (Star)	Central hub for Russian astronauts.
5	Zarya (Sunshine)	Russian research module.
6	Destiny	American research module.
7	Columbus	European research module.
8	Kibo (Hope)	Japanese research module.



Links to other areas of the curriculum : Speaking and Listening, Writing, Maths (position & Direction), Geography, Science