

Chapter 1: Being an astronaut

1.1 What is an astronaut?

Activity name	Curriculum Link	Description
Worksheet A: I am an astronaut	Art and design EXA 2-05a	Inspired by a range of stimuli, I can express and communicate my ideas, thoughts and feelings through activities within art and design.
Worksheet B: European Astronauts	Art and design EXA 2-03a	I can create and present work that shows developing skill in using the visual elements and concepts.
Worksheet C: European Flags	Art and design EXA 2-03a	I can create and present work that shows developing skill in using the visual elements and concepts.
Worksheet D: European Astronauts	Angle, symmetry and transformation MTH 2-17d	Having investigated where, why and how scale is used and expressed, I can apply my understanding to interpret simple models, maps and plans.
Worksheet E: What will you take into space?	Literacy and English Creating texts LIT 2-29a	I can persuade, argue, explore issues or express an opinion using relevant supporting detail and/or evidence.
Worksheet F: Make a "mission log folder"	Art and Design EXA 2-02a	Choose and explore an extended range of media and technologies to create images and objects, comparing and combining them for specific tasks.

1.2 Gravity

Activity name	Curriculum Link	Description
Worksheet A: Experience gravity in the gym	Physical education, physical activity and sport HWB 2-25a	I am experiencing enjoyment and achievement on a daily basis by taking part in different kinds of energetic physical activities of my choosing, including sport and opportunities for outdoor learning, available at my place of learning and in the wider community.
Worksheet B: Raindrops keep falling on my head	EXA 2-05a	Inspired by a range of stimuli, I can express and

		communicate my ideas, thoughts and feelings through activities within art and design.
Worksheet C: Gravity – it's everywhere	Space SCN 2-06a	By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within in.
Worksheet D: The Solar System	Space SCN 2-06a	By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within in.

1.3 Weightlessness

Activity name	Curriculum Link	Description
Worksheet A: What is needed to orbit the Earth?	Forces SCN 2-08a	I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.
Worksheet B: Can you escape the force of gravity? (1)	Literacy and English Creating Texts LIT 2-29a Forces SCN 2-08a	I can persuade, argue, explore issues or express an opinion using relevant supporting detail and/or evidence. I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.
Worksheet B: Can you escape the force of gravity? (2)	Literacy and English Creating Texts LIT 2-29a	I can persuade, argue, explore issues or express an opinion using relevant supporting detail and/or evidence.
Worksheet C: How does an astronaut's body behave in space?	Biological Systems Body systems and cells SCN 2-12a English and Literacy Creating texts LIT 2-28a	By investigating some body systems and potential problems which they may develop, I can make informed decisions to help me to maintain my health and wellbeing. I can convey information, describe events, explain processes or combine ideas in different ways.

Chapter 2: A mission to space

2.1 The training of an astronaut

Activity name	Curriculum Link	Description
Worksheet A: Apply to become an astronaut	Creating texts LIT 2-28a LIT 2-29a ENG 2-27a	<p>I can convey information, describe events, explain processes or combine ideas in different ways.</p> <p>I can persuade, argue, explore issues or express an opinion using relevant supporting detail and/or evidence.</p> <p>I am learning to use language and style in a way which engages and/or influences my reader.</p>
Worksheet B: Astronaut training	Music EX2-18a	Inspired by a range of stimuli, and working on my own and/or with others, I can express and communicate my ideas, thoughts and feelings through musical activities.
Worksheet C: Learning a new alphabet	English and literacy Organising and using information LIT2-25a	I can use my notes and other types of writing to help me understand information and ideas, explore problems, make decisions, generate and develop ideas or create new text. I recognise the need to acknowledge my sources and can do this appropriately.
Worksheet D: New symbols	Expressions and Equations MTH 2-15a	I can apply my knowledge of number facts to solve problems where an unknown value is represented by a symbol or letter.
Worksheet E: Floating and sinking	Information handling Data and analysis MNU 2-20a MTH 2-21a	Having discussed the variety of ways and range of media used to present data, I can interpret and draw conclusions from the information displayed, recognising that the presentation may be misleading.

		I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams and graphs, making effective use of technology.
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2.2 Space suits

Activity name	Curriculum Link	Description
Worksheet A: Measure temperature – Indoor climate	Information handling Data and analysis MTH 2-21a	I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams and graphs, making effective use of technology.
Worksheet B: What would you wear?	English and literacy Creating texts LIT 2-28a	I can convey information, describe events, explain processes or combine ideas in different ways.
Worksheet C: Design your own space suit	Art and Design EXA 2-06a	I can develop and communicate my ideas, demonstrating imagination and presenting at least one possible solution to a design problem.
Worksheet D: Put on the space suit	Art and Design EXA 2-02a	Choose and explore an extended range of media and technologies to create images and objects, comparing and combining them for specific tasks.

2.3 Travelling to space

Activity name	Curriculum Link	Description
Worksheet A: Launching the spacecraft	Craft, design, engineering and graphics contexts for developing technical skills and knowledge TCH 2-14a	Through discovery and imagination, I can develop and use problem-solving strategies to construct models.
Worksheet B: Make a rocket film	Art and Design EXA 2-05a	Inspired by a range of stimuli, I can express and communicate my ideas, thoughts and feelings through activities within art and design.
Worksheet C: Make a rocket	Art and Design EXA 2-02a	Choose and explore an extended range of media and technologies to create images and objects, comparing and combining them for specific tasks.

Worksheet D: Rocket race	Craft, design, engineering and graphics contexts for developing technical skills and knowledge TCH 2-13a	During practical activities and design challenges, I can estimate and measure using appropriate instruments and units.
Worksheet E: Travelling by different means	Time MNU 2-10c	Using simple time periods, I can give a good estimate of how long a journey should take, based on my knowledge of the link between time, speed and distance.
Worksheet F: Speed in space	Number and Number Processes MNU 2-03a Time MNU 2-10c	Having determined which calculations are needed, I can solve problems involving whole numbers using a range of methods, sharing my approaches and solutions with others. Using simple time periods, I can give a good estimate of how long a journey should take, based on my knowledge of the link between time, speed and distance.

Chapter 3: On board the space station

3.1 What is a space station?

Activity name	Curriculum Link	Description
Worksheet A: International cooperation	People, past events and societies SOC 2-06a	I can discuss why people and events from a particular time in the past were important, placing them within a historical sequence.
Worksheet B: See the international space station	Angle, symmetry and transformation MTH 2-17c	Through practical activities which include the use of technology, I have developed my understanding of the link between compass points and angles and can describe, follow and record directions, routes and journeys using appropriate vocabulary.
Worksheet C: Discover what is in the sky	Space SCN 2-06a	By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within it.
Worksheet D: Watch the night sky	Space SCN 2-06a	By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within it.
Worksheet E: Make a model of our solar system	Craft, design, engineering and graphics contexts for developing technological skills and knowledge TCH 2-13a TCH 2-14a Angle, symmetry and transformation MTH 2-17d	During practical activities and design challenges, I can estimate and measure using appropriate instruments and units. Through discovery and imagination, I can develop and use problem solving strategies to construct models. Having investigated where, why and how scale is used and expressed, I can apply my understanding to interpret simple models, maps and plans.
Worksheet F: Make a star or planet mobile	Craft, design, engineering and graphics contexts for developing technological skills and knowledge	Through discovery and imagination, I can develop and use problem solving strategies to

	TCH 2-13a	construct models.
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3.2 Building the International Space Station

Activity name	Curriculum Link	Description
Worksheet A: The shapes of the modules (1)	Shape, position and movement Properties of 2D shapes and 3D objects MTH 2-16a	Having explored a range of 3D objects and 2D shapes, I can use mathematical language to describe their properties, and through investigation can discuss where and why particular shapes are used in the environment.
Worksheet A: The shapes of the modules (2)	Shape, position and movement Properties of 2D shapes and 3D objects MTH 2-16a	Having explored a range of 3D objects and 2D shapes, I can use mathematical language to describe their properties, and through investigation can discuss where and why particular shapes are used in the environment.
Worksheet B: Build your own space station	Craft, design, engineering and graphics contexts for developing technological skills and knowledge TCH 2-13a	Through discovery and imagination, I can develop and use problem solving strategies to construct models.
Worksheet C: Robotics	Computing science contexts for developing technological skills and knowledge TCH 2-09a	Using appropriate software, I can work collaboratively to design an interesting and entertaining game which incorporates a form of control technology or interactive multimedia.

3.3 Getting things there and back

Activity name	Curriculum Link	Description
Worksheet A: Plan a mission (1)	Time MNU 2-10a	I can use and interpret electronic and paper-based timetables and schedules to plan events and activities, and make time calculations as part of my planning.
Worksheet A: Plan a mission (2)	Food and textiles contexts for developing technological skills and knowledge TCH 2-11a	Through discovery and imagination, I can develop and use problem-solving strategies to meet design challenges with a food or textile focus.

Worksheet B: Create an astronaut menu	Food and textiles contexts for developing technological skills and knowledge TCH 2-11a	Through discovery and imagination, I can develop and use problem-solving strategies to meet design challenges with a food or textile focus.
Worksheet C: Test and taste the astronaut diet – food	Food and textiles contexts for developing technological skills and knowledge TCH 2-11a	Through discovery and imagination, I can develop and use problem-solving strategies to meet design challenges with a food or textile focus.
Worksheet C: Test and taste the astronaut diet – drink	Food and textiles contexts for developing technological skills and knowledge TCH 2-11a	Through discovery and imagination, I can develop and use problem-solving strategies to meet design challenges with a food or textile focus.

Chapter 4: Living in space

4.1 Living on board the International Space Station

Activity name	Curriculum Link	Description
Worksheet A: Dizzy astronauts (1)	Movement, skills, competencies and concepts HWB 2-22a	I practise, consolidate and refine my skills to improve my performance. I am developing and sustaining my levels of fitness.
Worksheet A: Dizzy astronauts (2)	Movement, skills, competencies and concepts HWB 2-22a	I practise, consolidate and refine my skills to improve my performance. I am developing and sustaining my levels of fitness.
Worksheet B: Liquids in space	Forces SCN 2-08a	I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.
Worksheet C: An astronaut's day – and your day	English and literacy Creating texts LIT 2-28a	I can convey information, describe events, explain processes or combine ideas in different ways.
Worksheet D: Day and night	Time MNU 2-10a	I can use and interpret electronic and paper-based timetables and schedules to plan events and activities, and make time calculations as part of my planning.
Worksheet E: The year through (1)	Space SCN 1-06a	By safely observing and recording the sun and moon at various times, I can describe their patterns of movement and changes over time. I can relate these to the length of a day, a month and a year.
Worksheet E: The year through (2)	Space SCN 1-06a	By safely observing and recording the sun and moon at various times, I can describe their patterns of movement and changes over time. I can relate these to the length of a day, a month and a year.

4.2 Working on the International Space Station

Activity name	Curriculum Link	Description
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Worksheet A: Keeping it clean and tidy	Technological Developments in Society TCH 2-02a	Having analysed how lifestyle can impact on the environment and Earth's resources, I can make suggestions about how to live in a more sustainable way.
Worksheet B: Experiments in space – plant growth	Biodiversity and Interdependence SCN 2-02b	Through carrying out practical activities and investigations, I can show how plants have benefited society.
Worksheet C: Watching the Earth – Time zones (1)	Space SCN 2-06a	By observing and researching features of our solar system, I can use simple models to communicate my understanding of size, scale, time and relative motion within it.
Worksheet C: Watching the Earth – Time zones (2)	Number and Number Processes MNU 2-03a	Having determined which calculations are needed, I can solve problems involving whole numbers using a range of methods, sharing my approaches and solutions with others.
Worksheet C: Watching the Earth – Time zones (3)	Angle, symmetry and transformation MTH 2-17d	Having investigated where, why and how scale is used and expressed, I can apply my understanding to interpret simple models, maps and plans.
Worksheet C: Watching the Earth – Time zones (4)	Number and Number Processes MNU 2-03a	Having determined which calculations are needed, I can solve problems involving whole numbers using a range of methods, sharing my approaches and solutions with others.

4.3 Coming home

Activity name	Curriculum Link	Description
Worksheet A: A spacecraft returning to Earth (1)	Forces SCN 2-07a	By investigating how friction, including air resistance, affects motion, I can suggest ways to improve efficiency in moving objects.
Worksheet A: A spacecraft returning to Earth (2)	Forces SCN 2-07a	By investigating how friction, including air resistance, affects motion, I can suggest ways to improve efficiency in moving objects.
Worksheet B: Prepare an interview with an	Finding information and using information	I can make notes, organise them under suitable

astronaut	LIT 2-15a	headings and use them to understand information, develop my thinking, explore problems and create new texts, using my own words as appropriate.
Worksheet C: Make your own memory game	Art and Design EXA 2-02a	Choose and explore an extended range of media and technologies to create images and objects, comparing and combining them for specific tasks.

