

DU Year 5 Science Planning

Small Steps Guide

Thanks for downloading this DU Science Small Steps Guide for our 'Progression in Mastery' resource range. The steps we provide meet statutory and non-statutory standards, designed specifically to deliver the National Curriculum expectations. The units provided are taken directly from the programmes of study.

Components of our Science PIM Range



All the science steps devised by our team come with editable teaching slides so you can easily use DU as a basis for your next lesson. The PowerPoints provided have been given a unique structure specifically linked to our philosophies as well as the teaching of science.

The following consistent slide structures are applied throughout all year groups although they are only drawn upon where they naturally fit within a lesson:

- Remember the Science
- Know the Science
- Talk like a Scientist
- Think like a Scientist (includes concept cartoons to address misconceptions)
- Act like a Scientist
- Become a Scientist
- Exit Task - Checking the Tricky Bits

Famous scientists feature throughout

Did you know that one set of teaching slides in each unit of science is dedicated to educating children about the lives of a diverse range of scientists? The case studies we have selected demonstrate how science has changed our lives and contributed to the prosperity of the world as we see it today.



In each step, you are provided with tasks for independent activities to evidence learning. These write-on worksheets are perfect for whole class teaching and offering a balance for all learners. They provide a structure for all pupils to access learning from the same starting point whilst also acting as a guide for encouraging pupils to record their own learning. Through use of our task sheets, we believe that greater depth pupils will naturally demonstrate their ability through the detail of their responses and precise scientific vocabulary they apply.



Within practical steps, investigation cards can be downloaded. In Key Stage 1, these can be easily shared with pupils on your classroom's screen and in the latter primary years, pupils may be able to follow these as a means of leading their own investigations. The cards detail the line of enquiry, equipment needed and the method of investigation. These could even be used for your own professional practice, allowing you the chance to test the activity before delivering it yourself.

Our Small Steps Collection

The grids below outline how you may sequence each unit of science in your Year 5 learning journey across the year. DU always encourages you to make changes to the materials we provide to suit the needs of pupils you teach and align our materials to any school philosophies as part of your research-driven curriculum. These steps are versatile – they can be used within a single lesson or spread across multiple sessions of science

Unit 1: Earth and Space

Step Number	Pack Name
001	How Do We Know the Earth Is Spherical?
002	What Moves – The Sun or The Earth?
003	Day and Night
004	Structure of the Earth
005	Phases of the Moon
006	Katherine Johnson *COMING SOON*
007	The Solar System
008	Map of the Solar System

Unit 2: Forces

Step Number	Pack Name
009	Gravity
010	Isaac Newton and Galileo Galilei *COMING SOON*
011	Force Meters
012	Air Resistance
013	Water Resistance
014	Friction
015	Levers and Pulleys

Unit 3: Properties and Changes of Materials

Step Number	Pack Name
016	Sorting Materials
017	What's the Use?
018	George Washington Carver *COMING SOON*
019	Conductors and Insulators
020	Dissolving
021	Dissolve and Recover
022	More Separation
023	Irreversible Changes
024	Cooking Changes

Unit 4: Living Things and Their Habitats

Step Number	Pack Name
025	Asexual Reproduction in Plants
026	Pollination and Fertilisation
027	Seed Dispersal
028	Compare Animal Life Cycles
029	Insect Life Cycles
030	Jane Goodall *COMING SOON*

Unit 5: Animals including Humans

Step Number	Pack Name
031	Gestation Investigation
032	Human Babies
033	Children
034	Adolescents and Puberty
035	Robert Winston *COMING SOON*
036	Late Adulthood