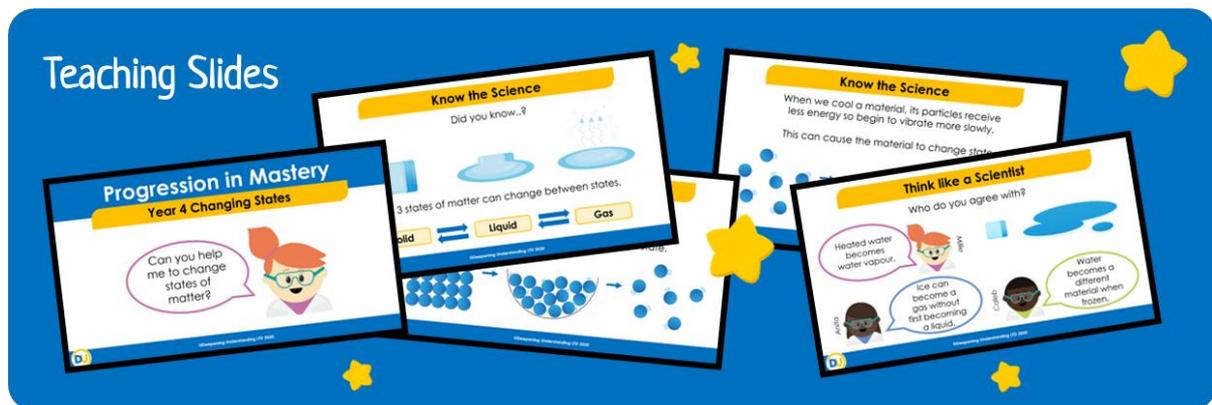


DU Year 4 Science Planning

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 4 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: States of Matter

Step Number	Pack Name
001	States of Matter
002	Professor Brian Cox *COMING SOON*
003	Measuring Temperature
004	Changing States
005	Temperature Transformations
006	The Water Cycle
007	The Rate of Evaporation

Unit 2: Sound

Step Number	Pack Name
008	Explore Sound
009	How Sound Travels
010	Alexander Graham Bell *COMING SOON*
011	Volume
012	Investigating Travelling Sounds
013	Insulating Sound
014	Pitch Patterns
015	Making Instruments

Unit 3: Animals including Humans

Step Number	Pack Name
016	Teeth
017	Pierre Fauchard *COMING SOON*
018	Chewing Food
019	Digestive System
020	Food Chains
021	Predators and Prey

Unit 4: Electricity

Step Number	Pack Name
022	Everyday Electrical Appliances
023	Alessandro Volta *COMING SOON*
024	Series Circuits
025	Light the Lamp
026	Switches
027	Conductors and Insulators
028	Make a Switch

Unit 5: Living Things and Their Habitats

Step Number	Pack Name
029	Vertebrate and Invertebrate Animals
030	Warm and Cold-Blooded Animals
031	Local Animals
032	Local Plants
033	Trees
034	Negative Environmental Change
035	Positive Environmental Change
036	David Attenborough *COMING SOON*