

Our Vision and Principles for Science at Wren's Nest Primary School is to encourage curiosity in children, so that they can ask questions that fuel explorations and investigations about the universe we live in. **Big Ideas** Content and Sequencing As Albert Einstein said, 'The important thing is to never Each topic has been specifically named to ignite the interest of the children and bring excitement to the topic. stop questioning'. Questioning Year 1 Year 4 By working scientifically our children develop the skills to Planning Seasonal Changes - Why do Snowmen melt in Summer? Animals including Humans - Chew it and Poo it! Evaluating question, enquire, evaluate and conclude in their research Animals including Humans - What makes me, me? Electricity - Bright Sparks States of Matter - What's the 'Matter'? Uses of everyday materials - Messy Materials Predicting √ and experiments. Science contributes to a child's Plants - Let's Grow! Sound - Freaky Frequency Observing intellectual development by equipping them with Living Things and their Habitats - Super Species Measuring Year 2 Year 5 knowledge of the world around them and skills in which to √ Inferrina Materials and their properties - Bricks, sticks and other Earth and Space - To Infinity and Beyond enquire. We want to encourage our children to be Concluding Properties and changes of Materials - Radical Reactions bits Evaluating ambitious and be aware of STEM related career Living things and their habitats - It's Alive! Living things and their Habitats - The Circle of Life Plants - Seeds, Soil and Sunshine ~ Communication Animals including Humans - Who do you think you are? opportunities. Our high-quality tailored curriculum is led Animals including Humans - Me, you and Animals too! Forces - May the Force be with you Outdoor Learning by a STEM Ambassador and supported by our Science Year 3 Year 6 Investigating Rocks and Soils - School of Rocks Evolution and Inheritance - Darwin's Dilemma Advisor, who is a scientist at a local university. Enquiry Forces and Magnets - Force Fields Living things and their habitats - Do you want to be in my 1 Fair testing Plants - Let it grow! 'Class'? Animals including Humans - Funny Bones Animals including Humans - Awesome Anatomy Light - Time to Shine Light - Bright Ideas Electricity - Circuit Training 0 Progress Retrieval Cross curricular links Support Low-stake guizzes Direct links with: \checkmark End of unit challenges Quizzes ~ Inclusion for all children. 0 History Formative assessments Tasks and ✓ Children in provision sets to access strength Computing 0 Summative assessments using the lessons in year groups activities Maths 0 school's OTrack Assessment system. ✓ Tiered Vocabulary Literature **Big Questions** Children's books Differentiated activities based on scientific ~ British Values Content mapping of the skills and Schemas 0 ~ skills and knowledge. knowledge of the curriculum PSHE 0 Hooks ✓ Groups across school Increase in the use of scientific Geography 0 ✓ Adult support in the classrooms ✓ University language and concepts. Enrichment activities e.g. a visit to ✓ Working Walls Challenge Working Wall ICT based resources, such as iPads Wren's Nest Nature Reserve. ~ Photographs Science planning tailored to the needs of our ✓ Wren's Nest Schema Webs of food, fashion and ~ Videos SEND and SEMH groups technology. School website showcasing videos CPD for staff ✓ created by classes Work with a STEM ambassador 1 ✓ Golden Nuggets