Out of this Wo Southville Primary Scho	orld – Term 2		Year 5
Local Anchor Point	Visit/ Visitor	Key Person	Key Outcome
	Explorer Dome	Lonnie Johnson Katherine Johnson	Investigation - Presentation of Findings
Diversity, Equity and Inclusion		Linked Learning	
CARGO: Lonnie Johnson Hidden Figures Book: Mary Jackson, Katherine Johnson and Dorothy Vaughan		Reception - Blast Off Year 3 - Focus and Magnets	
Driver: Science Where's our place in the universe Driver Objectives	e?		
 describe the movement of the moon relative to the Earth describe the sun, Earth and moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations use relevant scientific language and illustrations to discuss, to talk about how scientific ideas have developed over time. explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effects of air resistance, <i>water resistance</i> (taught in Term 5: Vikings) and friction, that act between moving surfaces 			
 This is knowing how to carry out pr Planning: Asking questions Doing: Using different equ Recording: Obtaining evide Concluding: Suggesting an Evaluating: Seeking patter 	actical procedures using different equipment and to s, fair testing, setting up simple tests ipment safely, making systematic and careful observ ence, classifying and identifying, recording findings i swers, reporting, presenting (in oral and written for ns, making predictions for the future	collect, use, interpret, understand and ev ations n a variety of ways (e.g. drawings, labelled ns)	valuate the evidence from scientific processes: d diagrams, keys, bar charts, graphs and tables)

Driver Key Vocabulary

- Tier 1: space, Earth, Moon, star, planet, day, night, seasons, distance, rotating, axis, gravity, sun, light, heat, energy, year
- Tier 2: orbit, friction, air resistance, fair test, weight, surface area, force, weight, solar system, galaxy, Milky Way, rotate, sphere, evidence, reflect, satellite, eclipse, atmosphere
- Tier 3: Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, Sun, hydrogen, helium, gravity, solar system, Moon landing, Neil Armstrong, Apollo 11, lunar eclipse, Aristotle, space exploration, satellite, orbiting, parabolic flight, parachute

Driver Sequence - Where's our place in the universe?

- 1. WALT: Describe the movement of the Earth relative to the sun and its location within the universe. (Flipbook activity)
- 2. WALT: Think about what we already know and what we would like to find out about space. (Topic book share and fact recording)
- 3. WALT: Identify the sun as a star and explain its benefits. (Poster creation)
- 4. WALT: Understand the scale of our solar system. (Toilet roll demonstration)
- 5. WALT: Use forces vocabulary correctly. (Interactive sorting and carousel activities)
- 6. WALT: Understand why the sun, Earth, and the Moon are spherical bodies. (Diagrams and Aristotle's evidence discussion)
- 7. WALT: Explain what the moon is. (Elicitation and fact-sharing activity)
- 8. WALT: Describe the phases of the moon. (Labelling and visual spinner creation)
- 9. WALT: Identify the effects of friction acting between moving surfaces. (Demonstration and activities with a force meter)
- 10. WALT: Identify the effects of friction acting between moving surfaces. (Testing and results analysis)
- 11. WALT: Describe the Earth's rotation on its axis and its impact on day, night, and the seasons. (Diagram and globe demonstration)
- 12. WALT: Explain the significance of the moon landing. (Neil Armstrong lesson and fact discussion)
- 13. WALT: Learn about the work of scientists. (Reading comprehension and inference questions)
- 14. WALT: Learn about the work of scientists. (Creating a certificate or medal)
- 15. WALT: Learn about the work of scientists. (Lonnie Johnson lesson)
- 16. WALT: Identify the effect of air resistance on falling objects. (Demonstration with footballs, paper, and discussion)
- 17. WALT: Identify the effect of air resistance on falling objects. (Investigation with stopwatches and recording)
- 18. WALT: Investigate the impact of weight on air resistance. (Adding weights to parachutes)
- 19. WALT: Investigate the impact of weight on air resistance. (Conclusion of parachute investigation)
- 20. WALT: Consider the impact of air resistance on slowing the rate of falling objects. (Recap and teaching on parachutes)
- 21. WALT: Consider the impact of air resistance on slowing the rate of falling objects. (Parachute creation and testing)
- 22. WALT: Consider the impact of air resistance on slowing the rate of falling objects. (Amendments to parachutes and mean calculation)
- 23. WALT: Consider the impact of air resistance on slowing the rate of falling objects. (Investigation conclusion and questions)
- 24. WALT: Demonstrate an understanding of key concepts about space. (Presentation of learning)