

HEP SCIENCE YEAR 2 OUTLINE



Half Term	Unit	Objectives	Breakdown of Lessons	Simple Investigations (With Working Scientifically)	Key Vocabulary
1	Growing Plants	Observe how seeds and bulbs grow; Learn about plant needs (water, light, temperature)	<ol style="list-style-type: none"> 1. Introduction to Plant Growth 2. Germination: Plant seeds and observe early growth 3. Observing Growth 4. What Plants Need 5. Comparing Growth 6. Summarising and Recording 	<p>Asking Simple Questions & Suggesting Answers: Pupils ask, 'What do plants need to grow?' and suggest answers like water, light, and soil.</p> <p>Planting Seeds: Pupils plant sunflower seeds and bean seeds, varying water and light.</p> <p>Observing Closely & Using Equipment: Use magnifying glasses to observe seed changes daily.</p> <p>Recording Data: Measure plant height weekly, record observations in a plant diary.</p>	Seed, Bulb, Growth, Soil, Light, Water, Temperature
2	Uses of Everyday Materials	Compare the suitability of materials for different uses; Explore how materials can change shape	<ol style="list-style-type: none"> 1. Introduction to Materials 2. Sorting Materials 3. Testing Materials 4. Comparing Uses 5. Changing Shapes 6. Summarising and Recording 	<p>Performing Simple Tests: Pupils test materials like paper, plastic, metal, and rubber to see if they bend, twist, stretch, or squash. Make predictions, conduct tests, and observe outcomes.</p> <p>Identifying & Classifying: Pupils classify materials based on properties.</p> <p>Recording Data: Pupils draw tests and describe observations.</p>	Material, Property, Hard, Soft, Bend, Stretch, Strong, Flexible
3	Animal Needs	Learn about animal life cycles; Understand basic needs of animals and humans (food, water, air)	<ol style="list-style-type: none"> 1. Introduction to Life Cycles 2. Babies and Adults 3. Growth and Change 4. What Animals Need 5. Human Life Cycle 6. Summarising and Recording 	<p>Identifying & Classifying: Use picture cards showing life stages (e.g., egg, caterpillar, butterfly). Discuss how these stages are connected.</p> <p>Performing Simple Tests: Pupils conduct a heart rate experiment before and after exercises. Record differences.</p> <p>Using Observations to Suggest Answers: Discuss why exercise affects heart rate.</p>	Baby, Adult, Life cycle, Food, Water, Air, Exercise, Hygiene
4	Local Habitats	Distinguish between living, dead, and never alive; Explore local habitats and how they meet needs	<ol style="list-style-type: none"> 1. Introduction to Habitats 2. Living, Dead, Never Alive 3. Local Habitats 4. Microhabitats 5. Basic Needs in Habitats 6. Summarising and Recording 	<p>Exploring & Observing: Nature walk to find living (plants, insects), dead (leaves), and never alive (stones).</p> <p>Using Simple Equipment: Hand lenses to observe small plants, insects, or soil.</p> <p>Gathering & Recording Data: Make lists and draw findings.</p>	Habitat, Environment, Food chain, Animal, Plant, Predator, Prey

HEP SCIENCE YEAR 2 OUTLINE



5	Habitats & Microhabitats	Investigate different habitats and microhabitats; Understand how conditions affect living things	<ol style="list-style-type: none"> 1. Exploring Habitats 2. Microhabitats in Detail 3. Conditions and Adaptations 4. Observing Different Habitats 5. Comparing Habitats 6. Summarising and Recording 	<p>Observing Over Time: Pupils select a small outdoor area to observe over a week. Record changes in insects and plants.</p> <p>Using Simple Measurements: Measure temperature and light levels. Compare sunny to shaded spots.</p> <p>Comparative Testing: Discuss why certain animals are found in one microhabitat and not another.</p>	Microhabitat, Adaptation, Environment, Conditions, Biodiversity
6	Food Chains and Health	Create simple food chains; Learn about human health and the importance of a balanced diet	<ol style="list-style-type: none"> 1. Introduction to Food Chains 2. Producers, Consumers, and Predators 3. Building Food Chains 4. Importance of Health 5. Healthy Diets 6. Summarising and Recording 	<p>Model Making & Identifying: Pupils create simple food chains (e.g., sun → grass → rabbit → fox).</p> <p>Gathering Information: Pupils research food groups and create a balanced meal plan.</p> <p>Using Ideas to Suggest Answers: Discuss how eating different foods affects health.</p>	Food chain, Producer, Consumer, Predator, Health, Diet