Equipment summary

Activity	Activity type	Summary	Equipment
IC1. The egg - An innovative egg shell	investigation	survey of egg structures survey mammal reproduction	hand lens or magnifying glass mounted needle or probe two hens' eggs per group vinegar
IC 2. Shaker Painter 4-litre tin - An alternative tin	product design	design packaging for paint samples	
IC 3. Chocolate packaging	practical investigation	design a test for biodegradable packaging	biodegradable chocolate packaging
IC 4. Simply Green Tomatoes	product design	design food packaging	
IC 5. Finishing Moisturiser	product design	design a dispenser that minimises waste	pump dispenser
IC 6. Shelf-ready Pounce	product design	design shelf-ready packaging	
IC 7. The Steel Can	calculations	computation of weights and money	aluminium cans steel cans bathroom scales kitchen scales
IC 8. The retort pouch	survey	design long-life packaging for foods	class lunches
IC 9. Hydro Asparagus Pack	product design	design a waterproof vegetable pack	
IC 10. Flexeeze	product design	design an accessible first aid kit	

Outcomes

Innovation Card Activity	Summary of Activity	Relevant Outcome Areas
1.1 The egg - An innovative egg shell	survey mammal reproduction egg structure	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts; examine the information in graphics, tables, labels and captions Maths: Design and prepare surveys; describe and explain observations; classify materials as solids, liquids or gases Science: Describe and explain observations; describe examples of change; classify materials as solids, liquids or gases; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; analyse science-related issues
2.1 Shaker Painter 4-litre tin	product design packaging for paint samples	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts; examine the information in graphics, tables, labels and captions Maths: Apply number skills; size and order numbers; explain the logic of generalisations; classify materials as solids, liquids or gases Science: Describe examples of change; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses

Innovation Card Activity	Summary of Activity	Relevant Outcome Areas
3.1 Chocolate packaging	practical investigation test of biode-gradability	English: Order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; provide succinct accounts of personal experiences or events Maths: Estimate and measure temperature; construct graphs; apply number skills; size and order numbers; explain the logic of generalisations; explain the logic of generalisations; prepare tables of discrete and continuous data Science: Design and conduct experiments to explore contexts; describe and explain observations; describe examples of change; explain physical change in common substances; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; analyse science-related issues
4.1 Simply Green Tomatoes	product design food packaging	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts; provide succinct accounts of personal experiences or events Maths: Estimate and measure weight; apply number skills; size and order numbers; explain the logic of generalisations; describe and explain observations; classify materials as solids, liquids or gases Science: Describe examples of change; explain physical change in common substances; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses
5.1 Finishing Moisturiser	product design a low-waste dispenser	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts Maths: Apply number skills; size and order numbers; explain the logic of generalisations; describe and explain observations; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses

Innovation Card Activity	Summary of Activity	Relevant Outcome Areas
6.1 Shelf-ready Pounce	product design shelf-ready packaging	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts; examine the information in graphics, tables, labels and captions; provide succinct accounts of personal experiences or events Maths: Estimate and measure weight; apply number skills; size and order numbers; explain the logic of generalisations; describe and explain observations Science: Describe examples of change; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; investigate how humans affect survival and environmental change
7.1 The steel can	calculations computation of weights and money	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts Maths: Apply number skills; size and order numbers; explain the logic of generalisations Science: Design and conduct experiments to explore contexts; describe and explain observations; describe examples of change; explain physical change in common substances; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; analyse science-related issues; investigate how humans affect survival and environmental change

Innovation Card Activity	Summary of Activity	Relevant Outcome Areas
8.1 The retort pouch	survey product design long-life packaging for foods	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts Maths: Estimate and measure weight; apply number skills; size and order numbers; explain the logic of generalisations; design and prepare surveys; classify materials as solids, liquids or gases Science: Describe examples of change; explain physical change in common substances; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; analyse science-related issues; investigate how humans affect survival and environmental change
9.1 Hydro Asparagus Pack	product design waterproof vegetable pack	English: Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information; locate, select and record key information from texts; interpret the main ideas and purpose of texts; order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly; use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts Maths: Estimate and measure temperature; estimate and measure weight; apply number skills; size and order numbers; explain the logic of generalisations Science: Describe examples of change; use diagrams; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; investigate how humans affect survival and environmental change
10.1 Flexeeze	product design accessible first-aid kit	English: Order information and sequence events; construct simple and compound sentences; use verb tenses correctly; use punctuation correctly Maths: Estimate and measure temperature Science: Describe examples of change; identify the action of forces in everyday situations; relate properties of common substances to their suitability for particular uses; use scientific language; analyse science-related issues

English Outcomes

	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1
Read and respond to a range of imaginative and informative texts containing some unfamiliar ideas and information	★	★		★	★	★	★	★	★	
Locate, select and record key information from texts	★	★		★	★	★	★	★	★	
Interpret the main ideas and purpose of texts	★			★	★	★		★	★	
Order information and sequence events	★	★	★	★	★	★	★	★	★	
Construct simple and compound sentences Use verb tenses correctly Use punctuation correctly	★	★	★	★	★	★	★	★	★	
Use a range of strategies for selecting resources and interpreting key information and ideas found in a number of texts	★	★		★	★	★	★	★	★	
Examine the information in graphics, tables, labels and captions	★	★		★		★				
Provide succinct accounts of personal experiences or events			★	★	★					

Mathematics Outcomes

	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1
Estimate and measure temperature			★						★	★
Estimate and measure weight				★		★		★	★	
Identify data as discrete or continuous										
Construct graphs			★							
Apply number skills		★	★	★	★	★	★	★	★	
Size and order numbers		★	★	★	★	★	★	★	★	
Explain the logic of generalisations		★	★	★	★	★	★	★	★	★
Design and prepare surveys	★							★		
Prepare tables of discrete and continuous data			★							

Science Outcomes

	1.1	2.1	3.1	4.1	5.1	6.1	7.1	8.1	9.1	10.1
Design and conduct experiments to explore contexts			★				★			
Describe and explain observations	★		★	★	★	★	★		★	
Classify materials as solids, liquids or gases	★	★		★				★		
Describe examples of change	★	★	★	★			★	★	★	★
Explain physical change in common substances			★	★			★	★		★
Use diagrams	★	★	★	★		★		★	★	★
Identify the action of forces in everyday situations	★	★		★	★	★	★	★	★	★
Relate properties of common substances to their suitability for particular uses	★	★		★	★	★	★	★	★	★
Use scientific language	★		★				★	★	★	★
Analyse science-related issues	★		★				★	★		★
Investigate how humans affect survival and environmental change			★			★	★	★	★	