Subject......Spring

Topic....Science....Lesson Length.....

Wk	Learning Outcome	Lesson	Resources
	To focus on observation and recording, throughout	Intro. the topic, "Toys", discuss all the different ways toys can	Photocopies
1	the whole topic.	move.(p1 of booklet).Explanation that these are all forces Pick	selection of toys.
5/1	To learn that objects can be moved in a variety of	out push and pull, (sheet), what toys can do this, examples,	,
	ways.	page in quarters draw and label.	
	To understand that springs store energy and after	Squashing and stretching springs, experiment with springs,	Springs and
2	force is applied they return to their original shape.	hanging weights on them. (record findings)	weights.
10/1	Appreciate top-heavy objects tip easily.	Discuss and look as a class at different top heavy toys.	Toys
	To learn that moving air pushes against surfaces.	Sailing (toy boats) – make boats in groups test and record	Equipment for
3		which was the best boat, and why.	boats and sheets.
17/1		Blow this – sheet related to the wind rein force outcome.	
	To understand that objects sink if they are denser	Floating – chose a selection of objects guess if they will sink or	Floating objects
4	than water.	float, (carry out exp. as a class) and record results.	
	Forces can cause movements (gravity pulls things	I'm not touching this – discussion on toys that move with out	Sheets
24/1	down.	touching them, carry out sheet.	
	To grasp that different balls have different elasticity	Bouncing - exp. on balls, dropping them from the same	Balls
5	and to learn things fall through the air at different	height. See sheet.	
31/1	speeds.	Spinners – Make different sized spinners and discuss the best.	Paper
	To start to understand that once moving things tend	Slides – exp. to show which toy slides the best, record.	Slope (lit board)
6	to go on moving unless friction opposes it	Move along – draw the toys that rolled down the slope the	toys
7/2		best.	
	To understand things needs energy to work.	How toys work – Draw and label how other toys work,	Examples of toys
7		batteries, springs & elastic.	Copies of game
			and plasticine.
14/2	Re-inforce all the forces covered, pushing etc.	Evaluation (game)	

	Introduction to changes materials in action. This	Intro. to the topic, sheet related to this, what happens to	Different materials
8	half term is all related to prediction.	different materials when they are heated.	choc, ice etc.
	To understand what a fair test is.	Carry out experiment related to the topic with different	
28/2		materials, draw the changes. See sheet.	
	To describe different material and predicted their	Sheet 1a, sort objects into groups, as a class using a Venn	Hoops variety of
9	changes.	diagram.	objects.
	To understand the importance of a fair test.	Sheets 2a, experiment to find the stretchiest material, predicted	
6/3		before and then write up results.	
	To classify different materials in a chart.	Shaping up Sheet 1b, try changing the shape of different	Variety of objects
10		objects, classify them in a chart.	to be felt.
	To record your results correctly, of the experiment.	Stretch and measure various materials and put into a chart.	
13/3			
	Children will develop an understanding of	Rainbow soaks – discussion, of which paper they think will	Different paper,
11	absorbency.	absorb the most fluid, (write down). Experiment 5a.	food colouring.
		Make a sunburst – experiment 5b, record which colours make	
20/3		the largest sunbursts.	
	Assessment of the topic to go in yellow folders.	See photocopy sheet.	
12	Related to changes in materials		
27/3			
	Children will develop an understanding of	Keeping dry, discuss which materials they think will be the best	Pots material and
13	waterproofing.	for a raincoat and why draw their own and label.	pipettes.
		Every drop counts (6b), experiment to see which material	
3/4		keeps the person the driest.	