Student Name			
School:			
Activity Title:	Marble Run Challenge		
Topic/Area Covered:	Conversion of Energy and Optimisation of Materials		
No of pupils	20 per class (classes tbc)	**Duration of Session**	45 minutes

Activity Summary: (100 words max)	Pupils, in groups of four, are given limited resources of card and Sellotape to build the longest marble run track. Bonus points will be given for unique designs such as marble run tracks containing loops. Winning teams of various categories will be announced after testing.

Activity Aims:

To gain an understanding of the conservation of energy and the effect the steepness of a slope has on how much kinetic energy is transferred to the marble.
To gain an understanding on how to optimise the limited materials given to make the best design possible.

Resources/Materials Required

Qty	Resource/Materials
75 (15 sheets per group, TBC)	Card
Check with Teachers	Sellotape
Check with Teachers	Scissors
5 (1 per group, groups TBC)	Marbles

Lesson Plan

Time	Activity	Resources Needed	Notes
5 mins	Brief introductions and overview of Strathclyde university	Presentation	
30 mins	Students design marble run tracks	See Resources/Materials Required section	
10 mins	Test marble run tracks + conclusion	N/A	