Student Name			
School:			
Activity Title:	Optimisation of Bouncy Balls		
Topic/Area Covered:	Nanopolymers, Chemical Engineering Materials.		
No of pupils	20	**Duration of Session**	45 minutes

Activity Summary: (100 words max)	PowerPoint on Chemical Engineering and what Engineering in general is. Introduce the activity, also the instructions and aims for it. Process of making bouncy balls in groups (example of a nanopolymer) with glue, contact lens solution, food colouring, bicarbonate of soda and glitter. Once the bouncy balls have been made the pupils can then have a competition for what groups bouncy ball travels the highest.

Activity Aims:

To learn about Engineering and Chemical Engineering materials.
To engage in a competition to make the highest bouncing bouncy ball.

Resources/Materials Required

Qty	Resource/Materials
4	*Glue*
4	*Contact lens solution*
4	*Food colouring*
4	*Paper spoons*
4	*Bicarbonate of soda*
4	*Paper cups*

Lesson Plan

Time	Activity	Resources Needed	Notes
10 minutes	Introduction slides on engineering and instructions for the activity.	PowerPoint slides on computer with projector.	
25 minutes	Carrying out the activity of making the bouncy balls.	Materials to make the bouncy balls.	
5 minutes	The competition for determining the most efficient bouncy ball.	None	
5 minutes	Question and answer session.	None	