

Summary of Activities

	Title	Level of difficulty	Time needed	Extra information
1	Alien Blood and Messy Volcanoes	Basic	30 minutes total time	
2	Chemical Magic	Basic	30 minutes total time	
3	Crunchy Foam and Microwave Meringues	Basic	30 minutes total time	Home experiment
4	Crystal Growing	Basic	30 minutes setting up / leave several days	
5	Fire Extinguisher	Basic	30 minutes total time	
6	Floating Soap Bubbles	Basic	30 minutes total time	
7	pH Painting at Home	Basic	30 minutes total time	Home experiment
8	Rainbow Reaction	Basic	less than 30 minutes	
9	Smell Molecules - Ancient and New!	Basic	30 minutes	Teacher preparation needed
10	T-Shirt Chromatography	Basic	30 minutes setting up / leave for a few hours	
11	Cooking is Chemistry!	Basic/Intermediate	30-60 minutes total time	Home experiment
12	Dyeing Your Eggs	Basic/Intermediate	30 minutes / can be extended	
13	Fire Writing	Basic/Intermediate	30 minutes total time	
14	Handwarmers	Basic/Intermediate	30-60 minutes total time	
15	One Pot Copper Reactions	Basic/Intermediate	30 minutes total time	Teacher preparation needed Only suitable 13-14yrs and older
16	Secret Writing	Basic/Intermediate	30 minutes total time	Teacher preparation needed
17	The Apothecary's Cocktail	Basic/Intermediate	30 minutes initially Final stage - several hours	
18	A Magic Box	Intermediate	more than 60 minutes	
19	Burning Food	Intermediate	30 minutes total time	Close teacher supervision recommended
20	Chemistry in the 23rd Century	Intermediate	60 minutes total time	Problem solving
21	Hydrogen Balloons	Intermediate	30 minutes total time	Close teacher supervision recommended
22	Silver Fractals	Intermediate	30-60 minutes total time	
23	Slime with a Twist	Intermediate	30-60 minutes total time	Teacher preparation needed
24	Chemical Problems to Solve	Intermediate/High	30-60 minutes total time	Open-ended problem solving
25	Clock Reactions	Intermediate/High	more than 60 minutes	
26	Electroplating faces	Intermediate/High	30-60 minutes total time	
27	Strengthening Ice	Intermediate/High	setting up 30-60 minutes leave to freeze / 30-60 minutes to test	Investigation
28	Technicolour Fun	Intermediate/High	30 minutes, can be extended	Problem solving
29	Create Your Own Chemistry Trail	High	Long term project	Outdoor activity
30	Naples Blood	High	Setting up 30-60 minutes / leave for 4 days	Investigation
31	Puzzles			
D1	Chemiluminescent Ammonia Fountain	Teacher demonstration	30-60 minutes	Luminol needed
D2	Howling Jelly Baby	Teacher demonstration	30 minutes	Special risk assessment needed
D3	Pocket Rocket	Teacher demonstration	30-60 minutes	Special risk assessment needed
D4	Egg-splosion	Teacher demonstration	30-60 minutes	
D5	Cannon Fire	Teacher demonstration	30 minutes	Special risk assessment needed