

Cleveland Section of the American Chemical Society's National Chemistry Week Program,
 October, 2010 "Behind the Scenes with Chemistry" Experiments
 Ohio Science Standards Alignment

Indicators for K - 5th Grades

Exp. 1—Fake Snow	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2	1, 3, 4, 9			1	1
Scientific Inquiry	1, 3	1, 3, 8	2, 4, 5, 6	4, 6	3	3
Scientific Ways of Knowing	1	2	4	4		2
Exp. 2--Levitation	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 4, 5	1, 5		1, 3, 4	4	
Scientific Inquiry	1, 3, 7	1, 3, 6, 8	4, 5, 6, 7	4, 6	3	3
Scientific Ways of Knowing	1	2	4			2
Exp. 3--Foaming Mouth	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 3	1, 3, 4			2	
Scientific Inquiry	1, 3, 7	1, 3, 6, 8	2, 4, 5, 6, 7	4, 6	3	3
Scientific Ways of Knowing	1	2	4			2
Exp. 4--Hair	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 3	1, 3, 4		1	2	
Scientific Inquiry	1, 3, 7	1, 3, 6, 8	2, 4, 5, 6, 7	4, 6	3	3
Scientific Ways of Knowing	1	2	4			2

Exp. 5—Fake Skin	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 3	1, 3, 4			3	
Scientific Inquiry	1, 3, 7	1, 3, 6, 8	2, 4, 5, 6, 7	4, 6	1, 3	1, 3
Scientific Ways of Knowing	1	2	4			2,
Exp. 6-Fake blood	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 3	1,3, 4			2	
Scientific Inquiry	1, 3, 7	1, 3, 6, 8	2, 4, 5, 6, 7	4, 6	1, 3	1, 3
Scientific Ways of Knowing	1	2	4			2
Exp. 7—Blue Face	K	1st Grade	2nd Grade	3rd Grade	4th Grade	5th Grade
Physical Science	2, 3	1, 3, 4			2	
Scientific Inquiry	1, 3, 7	1,3, 6, 8	2, 4, 5, 6, 7	4, 6	3	3
Scientific Ways of Knowing	1	2	4			2

Indicators for 6-8th Grades

Exp. 1—Fake Snow	6th Grade	7th Grade	8th Grade
Physical Science	1	1, 3	
Scientific Inquiry	2	4	1
Scientific Ways of Knowing	3, 4	3	1
Exp. 2--Levitation	6th Grade	7th Grade	8th Grade
Physical Science			
Scientific Inquiry	2	4	1
Scientific Ways of Knowing	3	3	1

Exp. 3--Foaming Mouth	6th Grade	7th Grade	8th Grade
Physical Science	2	1	
Scientific Inquiry	2	4	4
Scientific Ways of Knowing	3		1
Exp. 4--Hair	6th Grade	7th Grade	8th Grade
Physical Science	2		
Scientific Inquiry	2	4	1
Scientific Ways of Knowing	3		1
Exp. 5—Fake Skin	6th Grade	7th Grade	8th Grade
Physical Science	2	1	
Scientific Inquiry	2	4	1
Scientific Ways of Knowing	3		1
Exp. 6-Fake blood	6th Grade	7th Grade	8th Grade
Physical Science	2		
Scientific Inquiry	2	4	1
Scientific Ways of Knowing	3		1
Exp. 7—Blue Face	6th Grade	7th Grade	8th Grade
Physical Science	2		
Scientific Inquiry	2	1, 4	1
Scientific Ways of Knowing	3		1

Exp. 1—Fake Snow	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science	16			
Scientific Inquiry	2, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	11
Exp. 2--Levitation	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science				9
Scientific Inquiry	2, 3, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	
Exp. 3--Foaming Mouth	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science				
Scientific Inquiry	2, 6	1, 4	5	3
Scientific Ways of Knowing	3, 9	7	11	
Exp. 4--Hair	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science				
Scientific Inquiry	2, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	
Exp. 5—Fake Skin	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science				
Scientific Inquiry	2, 3, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	
Exp. 6-Fake blood	9th Grade	10th Grade	11th Grade	12th Grade

Physical Science				
Scientific Inquiry	2, 3, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	
Exp. 7—Blue Face	9th Grade	10th Grade	11th Grade	12th Grade
Physical Science				
Scientific Inquiry	2, 3, 6	1, 4	5	3
Scientific Ways of Knowing	9	7	11	