

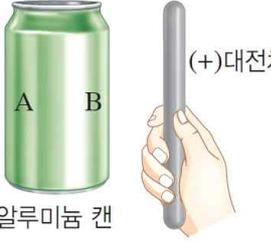
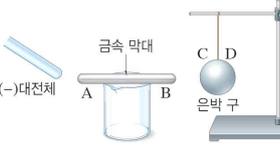
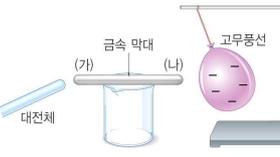
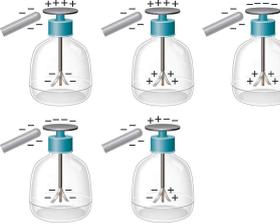
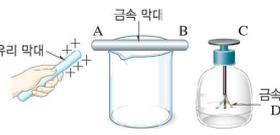
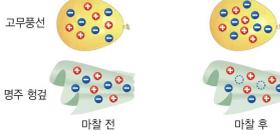
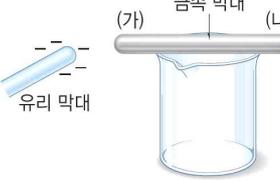
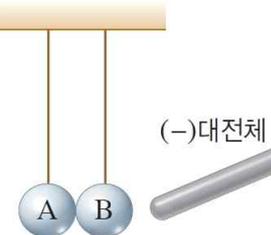
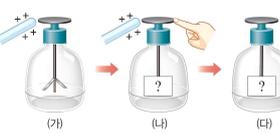
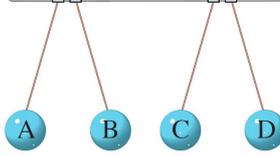
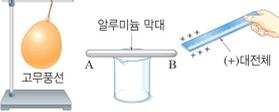
오투 중등과학 2-1 교사용 CD 그림 자료 목록

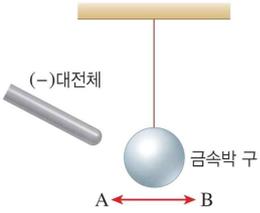
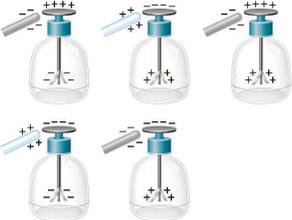
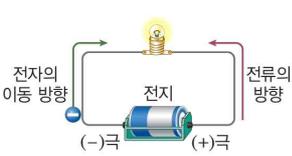
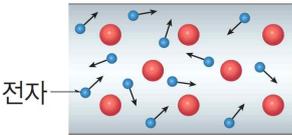
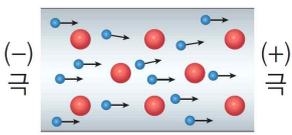
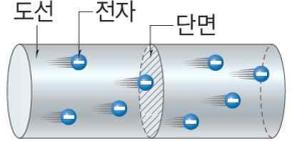
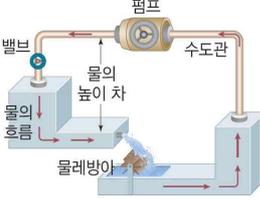
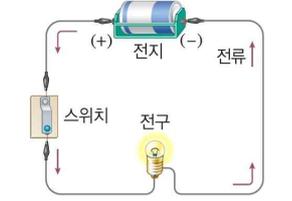
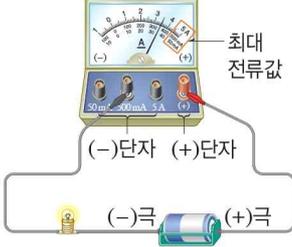
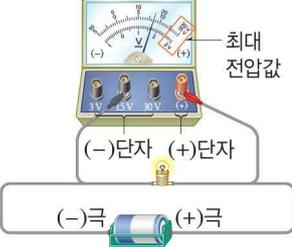
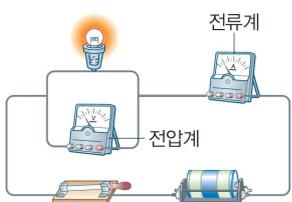
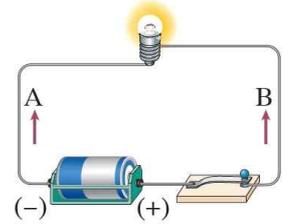
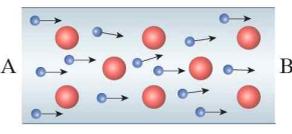
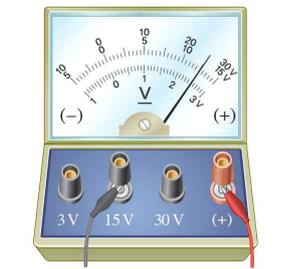
II. 전기와 자기

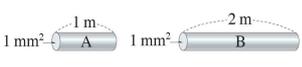
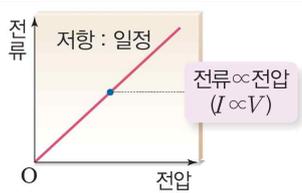
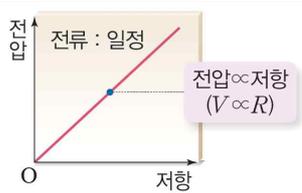
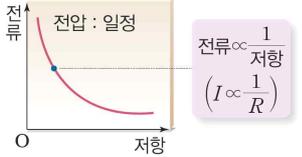
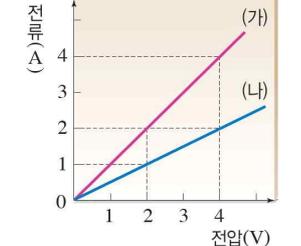
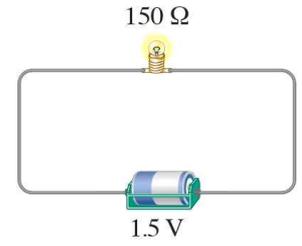
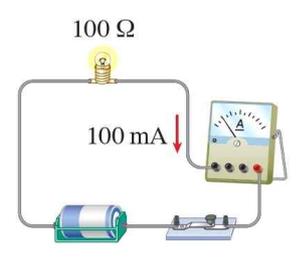
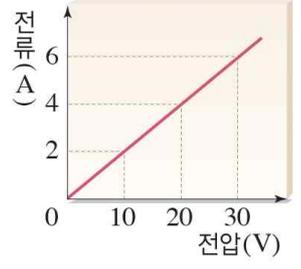
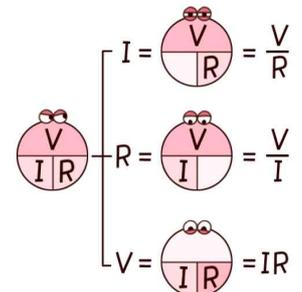
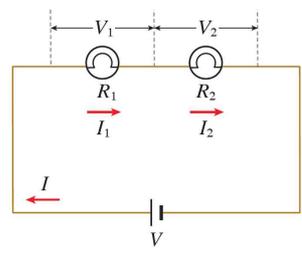
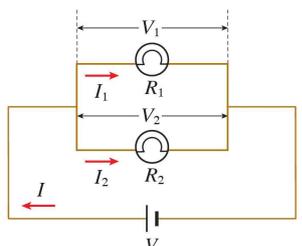
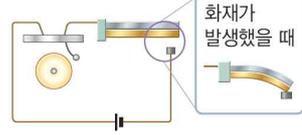
01. 전기의 발생			
2-01-01(털가죽과 플라스틱 빨대 마찰)	2-01-02(대전되는 순서)	2-01-03(원자가 전자 잃음)	2-01-04(원자가 전자 얻음)
2-01-05(척력)	2-01-06(인력)	2-01-07(유리컵의 대전)	2-01-08(털가죽과 빨대)
2-01-09(두 빨대)	2-01-10(플라스틱 막대와 털가죽의 마찰)	2-01-11(두 빨대)	2-01-12(대전된 물체 사이의 전기력)
2-01-13(마찰 시 전자의 이동)	2-01-14(금속 정전기 유도)	2-01-15(금속 물체에 대전체를 가까이 할 때)	2-01-16(검전기로 물체 대전 여부 확인)
2-01-17(검전기로 대전된 전하 양 비교)	2-01-18(검전기로 대전된 전하 종류 확인)	2-01-19(검전기의 대전)	2-01-20((+)전하로 대전시키기)

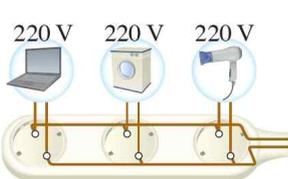
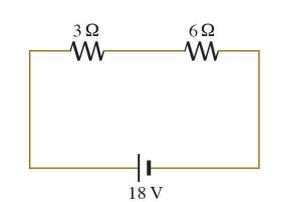
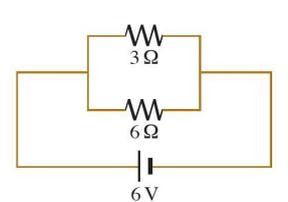
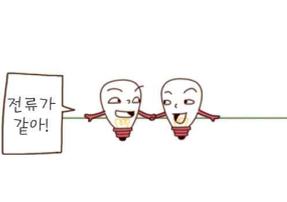
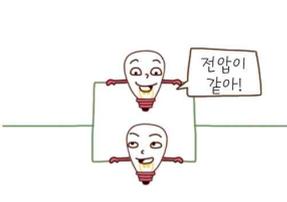
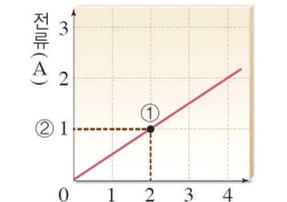
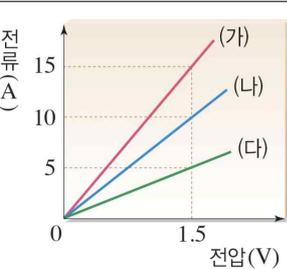
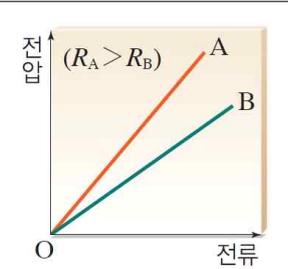
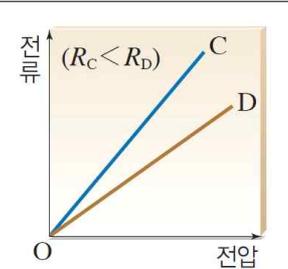
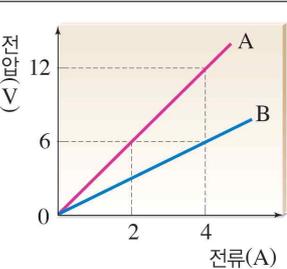
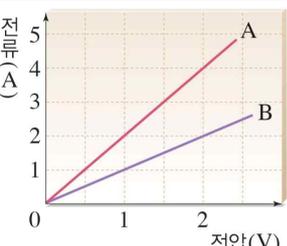
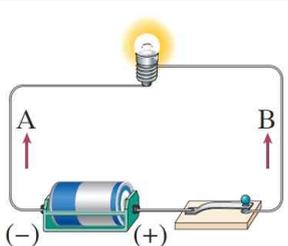
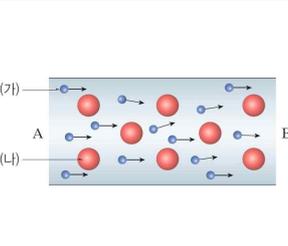
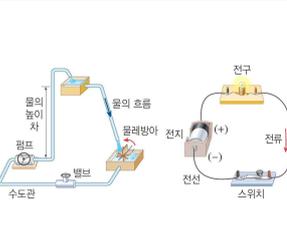
2-01-21((-)전하로 대전시키기)	2-01-22(금속 정전기 유도)	2-01-23(대전되는 전하의 종류)	2-01-24(검전기와 (+)대전체)
		<p>가까운 쪽 (가) 쪽    먼(㉠) 쪽 (나) 쪽</p> <p><b>가 다 만 셈!</b></p> <p>다른 전하    같은(same) 전하</p>	
2-01-25(검전기에 플라스틱 막대 가까이)	2-01-26(검전기에 털가죽 가까이)	2-01-27(벌어지기 전 금속박)	2-01-28(벌어진 금속박)
2-01-29(많이 벌어진 금속박)	2-01-30(알루미늄 캔의 대전)	2-01-31((+)전하의 유리 막대와 알루미늄 캔)	2-01-32(금속 막대와 은박 구의 대전)
2-01-33(금속 막대와 은박 구의 대전)	2-01-34(접촉한 두 금속 구와 (-)대전체)	2-01-35(접촉한 두 금속 구와 (+)대전체)	2-01-36(대전 상태 그리기)

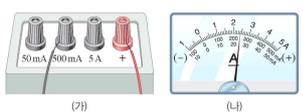
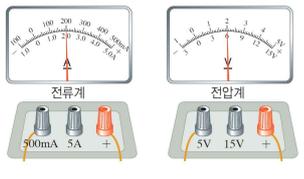
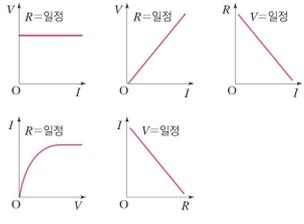
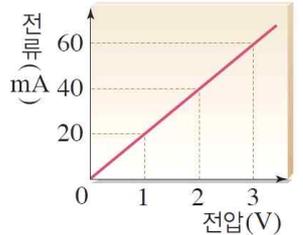
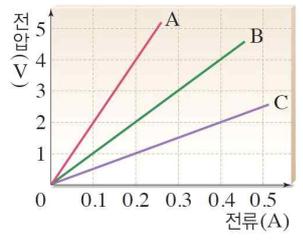
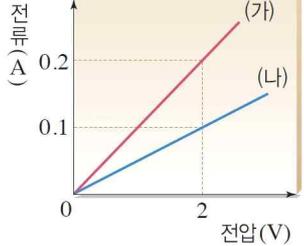
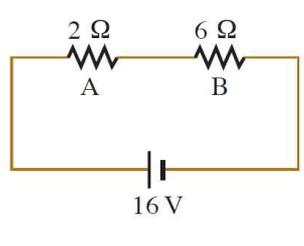
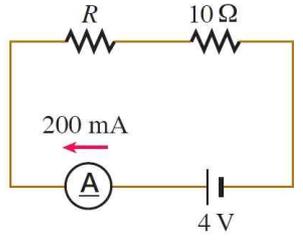
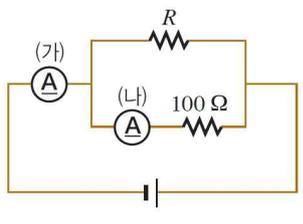
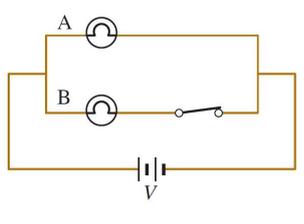
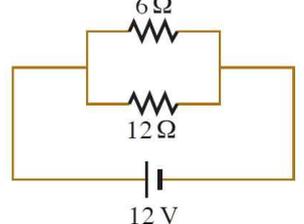
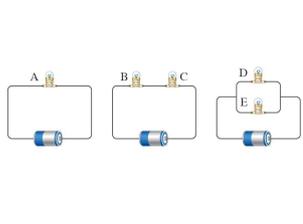
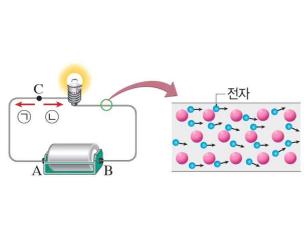
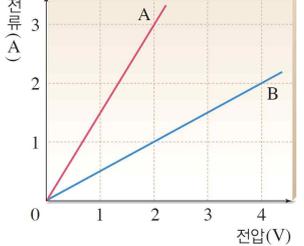
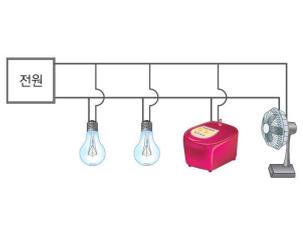
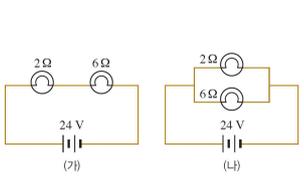
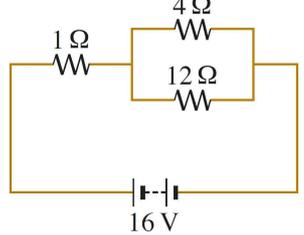
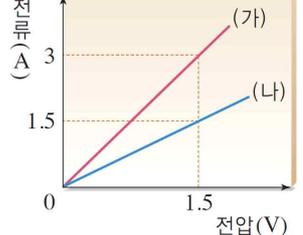
<p>2-01-37(검전기와 (+)대전체)</p>	<p>2-01-38(검전기와 (-)대전체)</p>	<p>2-01-39(검전기 (-)전하로 대전시키기)</p>	<p>2-01-40(검전기 (+)전하로 대전시키기)</p>
<p>2-01-41(검전기와 (-)대전체)</p>	<p>2-01-42(검전기와 (+)대전체)</p>	<p>2-01-43(플라스틱 막대와 털가죽)</p>	<p>2-01-44(두 물체 마찰 전후)</p>
<p>2-01-45(고무풍선과 고양이 털 마찰)</p>	<p>2-01-46(털가죽으로 문지른 두 고무풍선)</p>	<p>2-01-47(고무풍선을 털가죽으로 문지르기)</p>	<p>2-01-48(대전된 네 물체)</p>
<p>2-01-49(금속 막대의 정전기 유도)</p>	<p>2-01-50(은박 구와 (-)대전체)</p>	<p>2-01-51(금속 구의 대전 상태와 움직임)</p>	<p>2-01-52(금속 막대의 정전기 유도)</p>

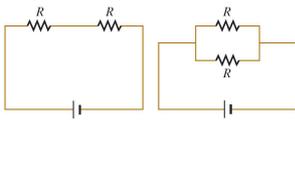
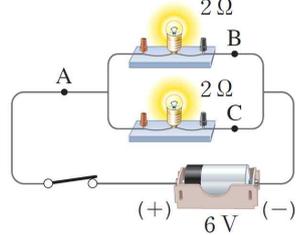
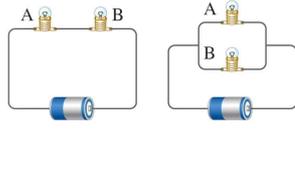
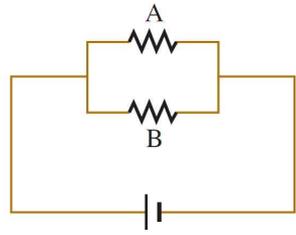
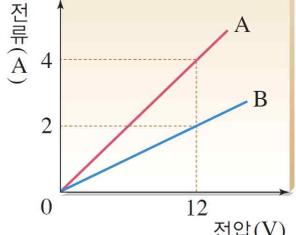
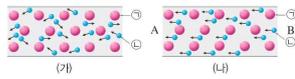
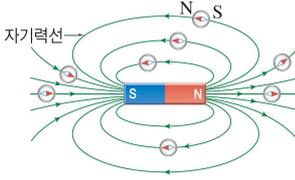
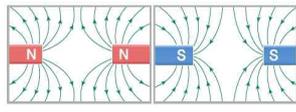
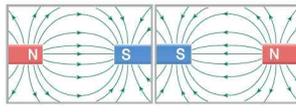
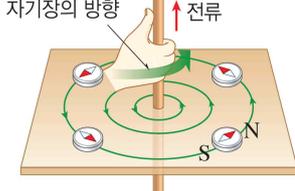
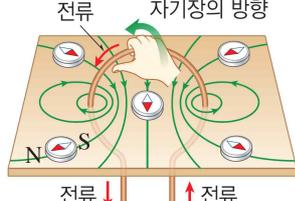
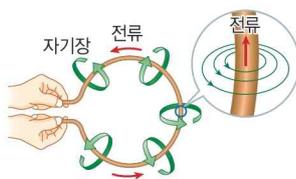
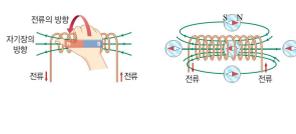
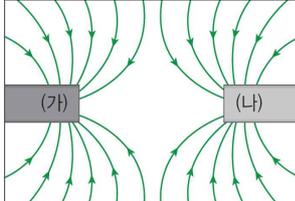
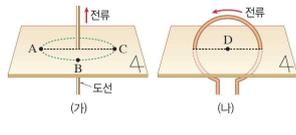
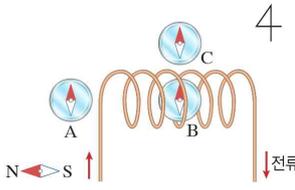
<p>2-01-53(알루미늄 캔과 (+)대전체)</p>	<p>2-01-54(금속 막대와 은박 구의 대전)</p>	<p>2-01-55(금속 막대와 대전된 고무풍선)</p>	<p>2-01-56(검전기와 (+)대전체)</p>
 <p>알루미늄 캔</p>	 <p>금속 막대 은박 구</p>	 <p>금속 막대 고무풍선</p>	 <p>금속판 금속막</p>
<p>2-01-57(검전기에 물체를 가까이 했을 때)</p>	<p>2-01-58(검전기와 (-)대전체)</p>	<p>2-01-59(금속 막대와 검전기의 정전기 유도)</p>	<p>2-01-60(금속 막대와 금속 구가 달린 검전기)</p>
 <p>금속판 금속막</p>		 <p>유리 막대 금속 막대 금속막</p>	 <p>플라스틱 막대 금속 구 금속막 금속막</p>
<p>2-01-61((+)전하로 대전된 검전기와 유리 막대)</p>	<p>2-01-62(고무풍선과 명주 헝겊 마찰 전후)</p>	<p>2-01-63(금속 정전기 유도)</p>	<p>2-01-64(알루미늄 캔과 대전된 플라스틱 막대)</p>
 <p>금속판 유리 막대 금속막</p>	 <p>고무풍선 명주 헝겊 마찰 전 마찰 후</p>	 <p>유리 막대 금속 막대 (가) (나)</p>	 <p>플라스틱 막대 알루미늄 캔</p>
<p>2-01-65(접촉한 두 은박 구와 (-)대전체)</p>	<p>2-01-66(검전기, 대전체, 손가락)</p>	<p>2-01-67(대전된 네 물체)</p>	<p>2-01-68(금속 막대와 대전된 고무풍선)</p>
 <p>(-)대전체</p>	 <p>(가) (나) (다)</p>	 <p>A B C D</p>	 <p>알루미늄 막대 고무풍선 (+)대전체</p>

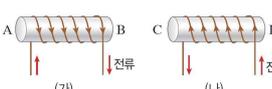
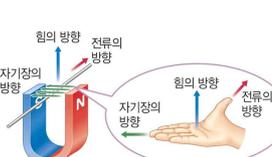
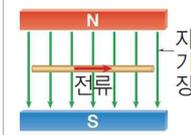
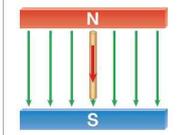
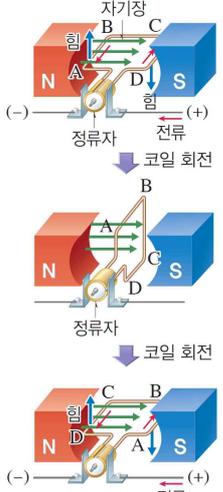
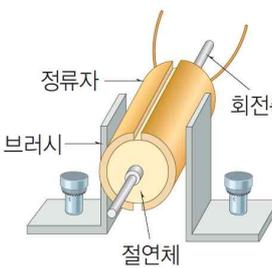
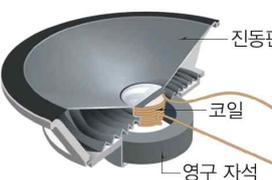
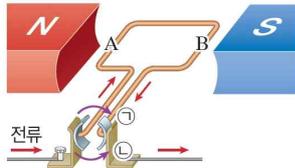
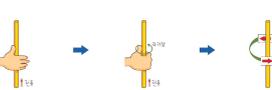
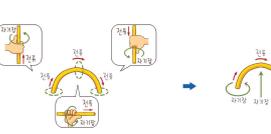
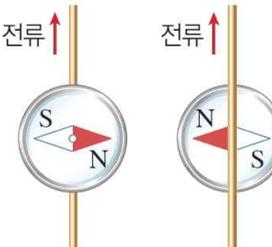
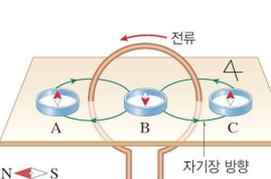
<p>2-01-69(금속막 구의 정전기 유도)</p> 	<p>2-01-70(검전기에 대전체를 가까이 할 때)</p> 	<p>2-01-71(대전된 검전기와 대전체)</p> 	
<p><b>02. 전류, 전압, 저항</b></p>			
<p>2-02-01(전자와 전류의 이동 방향)</p> 	<p>2-02-02(전류가 흐르지 않을 때 전자 운동)</p> 	<p>2-02-03(전류가 흐를 때 전자 운동)</p> 	<p>2-02-04(전류 세기 정의)</p> 
<p>2-02-05(물의 흐름)</p> 	<p>2-02-06(전기 회로)</p> 	<p>2-02-07(전류계)</p> 	<p>2-02-08(전압계)</p> 
<p>2-02-09(전류계의 눈금 읽기)</p> 	<p>2-02-10(전류계와 전압계의 연결)</p> 	<p>2-02-11(전기 회로)</p> 	<p>2-02-12(도선 속 전자 운동)</p> 
<p>2-02-13(전류계)</p> 	<p>2-02-14(전압계)</p> 	<p>2-02-15(저항과 물질의 길이)</p> 	<p>2-02-16(저항과 물질의 단면적)</p> 

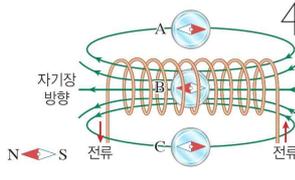
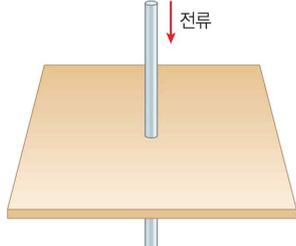
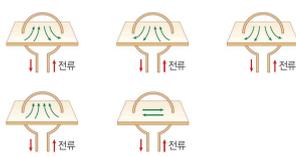
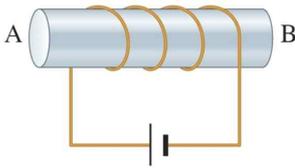
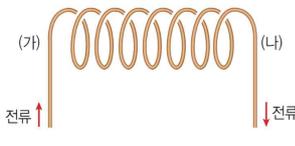
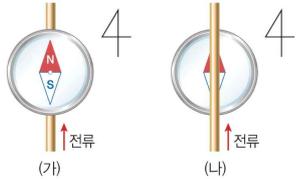
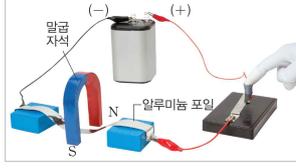
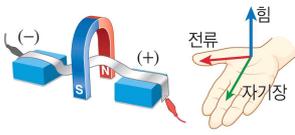
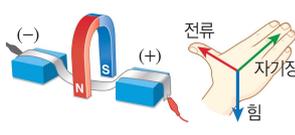
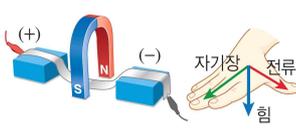
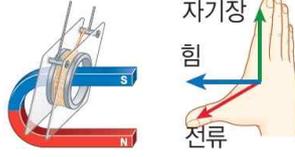
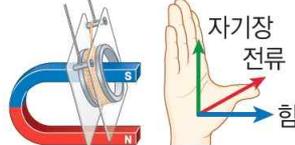
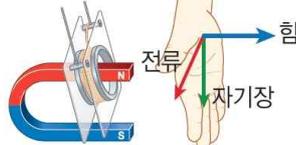
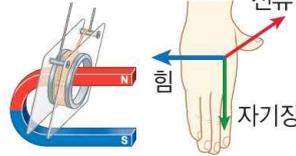
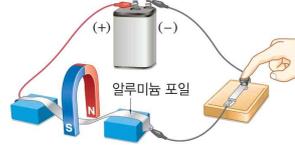
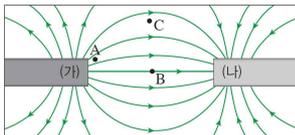
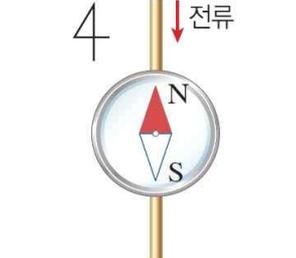
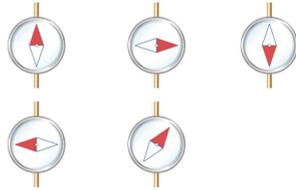
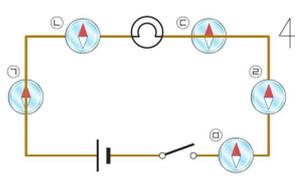
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<p>2-02-21(전류와 저항의 관계)</p> 	<p>2-02-22(전압-전류 그래프)</p> 	<p>2-02-23(저항 비교하기)</p> 	<p>2-02-24(전기 회로)</p> 
<p>2-02-25(전류계가 연결된 전기 회로)</p> 	<p>2-02-26(전압-전류 그래프)</p> 	<p>2-02-27(옴의 법칙 외우기)</p> 	<p>2-02-28(저항의 직렬연결 회로도)</p> 
<p>2-02-29(저항의 병렬연결 회로도)</p> 	<p>2-02-30(전지 기호)</p> 	<p>2-02-31(저항 기호)</p> 	<p>2-02-32(전구 기호)</p> 
<p>2-02-33(스위치 기호)</p> 	<p>2-02-34(전류계 기호)</p> 	<p>2-02-35(전압계 기호)</p> 	<p>2-02-36(화재 감지 장치)</p> 

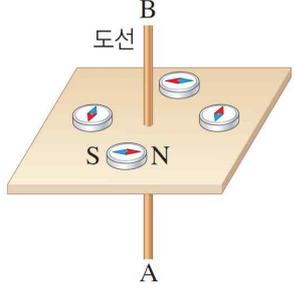
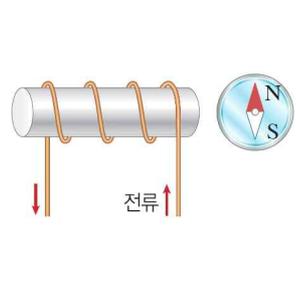
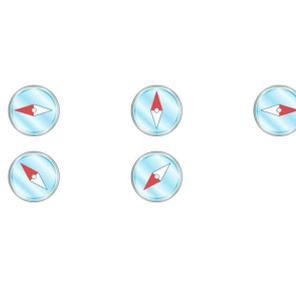
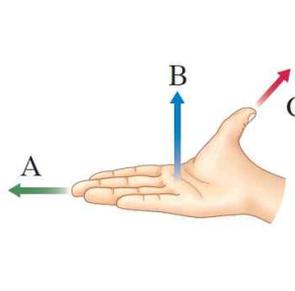
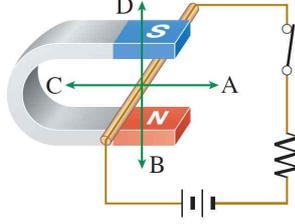
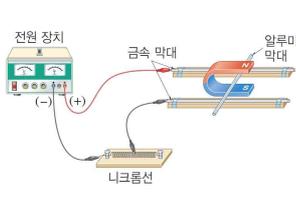
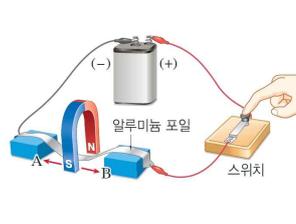
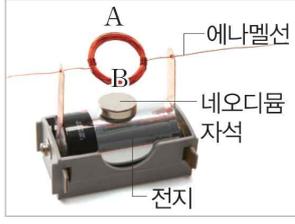
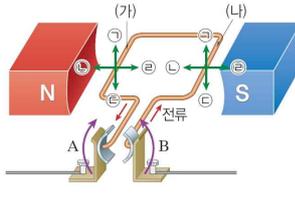
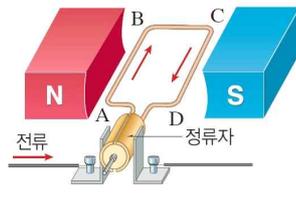
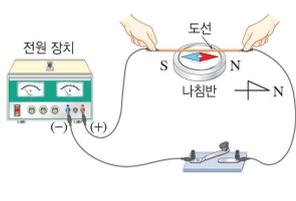
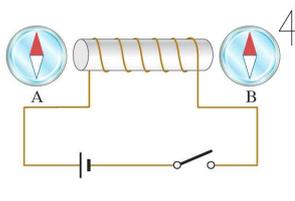
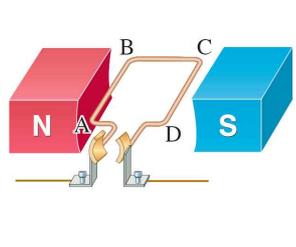
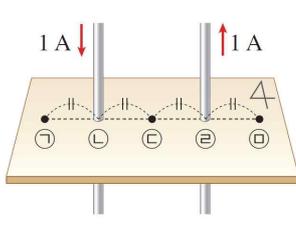
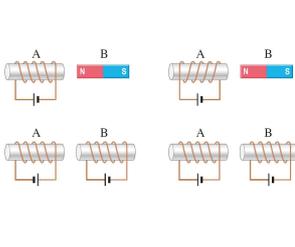
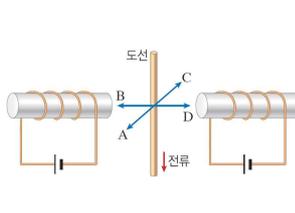
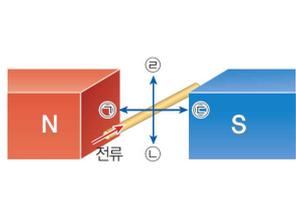
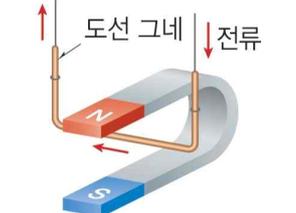
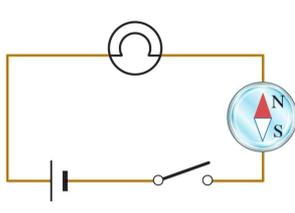
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<p>2-02-41(병렬연결의 장점2)</p> 	<p>2-02-42(전기 회로도)</p> 	<p>2-02-43(전기 회로도)</p> 	<p>2-02-44(직렬연결은 전류 일정)</p> 
<p>2-02-45(병렬연결은 전압 일정)</p> 	<p>2-02-46(전압과 전류의 관계 실험)</p> 	<p>2-02-47(전압-전류 그래프)</p> 	<p>2-02-48(전압-전류 그래프)</p> 
<p>2-02-49(전압-전류 그래프)</p> 	<p>2-02-50(전류-전압 그래프로 저항 비교)</p> 	<p>2-02-51(전압-전류 그래프로 저항 비교)</p> 	<p>2-02-52(전류-전압 그래프)</p> 
<p>2-02-53(전압-전류 그래프)</p> 	<p>2-02-54(전기 회로)</p> 	<p>2-02-55(도선 속 전자와 원자)</p> 	<p>2-02-56(물의 흐름과 전기 회로)</p> 

<p>2-02-57(전류계)</p>	<p>2-02-58(전류계와 전압계)</p>	<p>2-02-59(옴의 법칙 그래프)</p>	<p>2-02-60(전압-전류 그래프)</p>
 <p>(가) (나)</p>	 <p>전류계 전압계</p>		
<p>2-02-61(전류-전압 그래프)</p>	<p>2-02-62(전압-전류 그래프)</p>	<p>2-02-63(전기 회로도)</p>	<p>2-02-64(전기 회로도)</p>
			
<p>2-02-65(전기 회로도)</p>	<p>2-02-66(전기 회로도)</p>	<p>2-02-67(전기 회로도)</p>	<p>2-02-68(전기 회로)</p>
			
<p>2-02-69(가정 전기 기구의 연결)</p>	<p>2-02-70(전기 회로와 도선 속 전자)</p>	<p>2-02-71(전압-전류 그래프)</p>	<p>2-02-72(가정 전기 기구의 연결)</p>
			
<p>2-02-73(전류계)</p>	<p>2-02-74(전구의 직렬연결과 병렬연결)</p>	<p>2-02-75(전기 회로도)</p>	<p>2-02-76(전압-전류 그래프)</p>
			

2-02-77(저항의 직렬연결과 병렬연결)	2-02-78(병렬연결된 전구)	2-02-79(전기 기구의 연결)	2-02-80(전구의 직렬연결과 병렬연결)
			
2-02-81(전압계 눈금판)	2-02-82(저항의 병렬연결)	2-02-83(전압-전류 그래프)	2-02-84(도선 내부 전자의 운동)
			
<b>03. 전류의 자기 작용</b>			
2-03-01(자기력선과 자기장의 방향)	2-03-02(같은 극 사이의 자기력선)	2-03-03(다른 극 사이의 자기력선)	2-03-04(직선 도선 주위에 생긴 자기장)
			
2-03-05(원형 도선 주위에 생긴 자기장)	2-03-06(원형 도선에 의한 자기장의 모양)	2-03-07(코일 주위에 생긴 자기장)	2-03-08(전자석의 전류와 자기장의 방향)
			
2-03-09(두 극 사이의 자기력선)	2-03-10(직선 도선과 원형 도선)	2-03-11(나침반)	2-03-12(코일과 나침반)
			

<p>2-03-13(자기장 방향 찾기)</p>	<p>2-03-14(전자석)</p>	<p>2-03-15(자기장, 전류, 힘의 방향)</p>	<p>2-03-16(전류와 자기장의 각도)</p>
<p>전류의 방향을 먼저 찾으면 나머지 손가락이 자기장의 방향이다.</p> 			<p>각도</p> <p>수직</p>  <p>평행</p> 
<p>2-03-17(전동기의 구조)</p>	<p>2-03-18(정류자)</p>	<p>2-03-19(스피커의 구조)</p>	<p>2-03-20(자기장 속 도선이 받는 힘의 방향)</p>
			
<p>2-03-21(전동기의 구조)</p>	<p>2-03-22(자기장, 전류, 힘의 방향)</p>	<p>2-03-23(직선 도선 주위의 자기장의 방향)</p>	<p>2-03-24(원형 도선 주위의 자기장의 방향)</p>
			
<p>2-03-25(코일 주위의 자기장의 방향1)</p>	<p>2-03-26(코일 주위의 자기장의 방향2)</p>	<p>2-03-27(직선 도선 주위의 나침반 자침 방향)</p>	<p>2-03-28(원형 도선 주위의 나침반 자침 방향)</p>
			

2-03-29(코일 주위의 나침반 자침 방향)	2-03-30(직선 도선)	2-03-31(원형 도선 주위의 자기력선)	2-03-32(전자석)
			
2-03-33(코일)	2-03-34(직선 도선 위, 아래의 나침반)	2-03-35(자기장에서 전류가 받는 힘 실험)	2-03-36(자기장에서 전류가 받는 힘 실험 과정1)
			
2-03-37(자기장에서 전류가 받는 힘 실험 과정2)	2-03-38(자기장에서 전류가 받는 힘 실험 과정3)	2-03-39(전기 그네 실험)	2-03-40(전기 그네 실험 과정1)
			
2-03-41(전기 그네 실험 과정2-1)	2-03-42(전기 그네 실험 과정2-2)	2-03-43(전기 그네 실험 과정3)	2-03-44(알루미늄 포일이 받는 힘)
			
2-03-45(두 자석 사이의 자기력선)	2-03-46(직선 도선과 나침반)	2-03-47(직선 도선에서의 나침반 자침 방향)	2-03-48(전기 회로와 나침반)
			

2-03-49(직선 도선 주위의 나침반)	2-03-50(코일과 나침반)	2-03-51(나침반 자침 방향)	2-03-52(자기장, 전류, 힘의 방향)
			
2-03-53(자기장에서 도선이 받는 힘)	2-03-54(자기장에서 전류가 받는 힘)	2-03-55(자기장에서 전류가 받는 힘 실험)	2-03-56(간이 전동기)
			
2-03-57(전동기의 구조)	2-03-58(전동기의 구조)	2-03-59(직선 도선과 나침반)	2-03-60(전자석과 나침반)
			
2-03-61(나침반 그리기)	2-03-62(전동기의 구조)	2-03-63(전류의 방향이 다른 두 직선 도선)	2-03-64(전자석과 막대자석)
			
2-03-65(두 전자석 사이의 직선 도선)	2-03-66(자기장 속에서 도선이 받는 힘)	2-03-67(도선 그네)	2-03-68(도선 위의 나침반)
			

2-03-69(전동기의 구조)			
