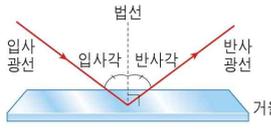
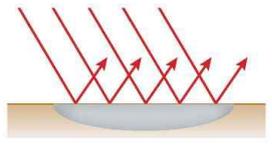
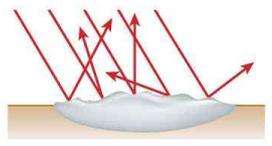
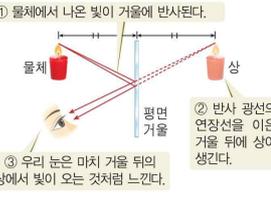
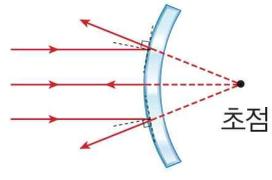
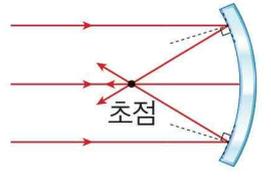
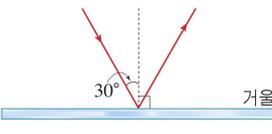
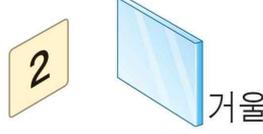
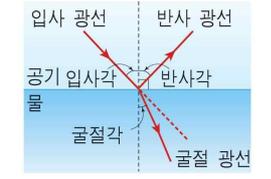
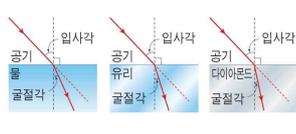
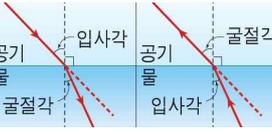
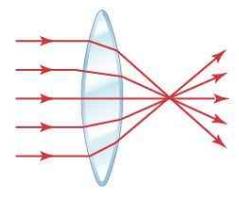
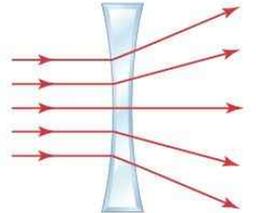
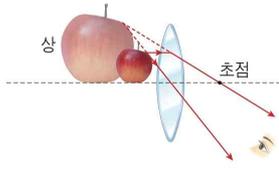


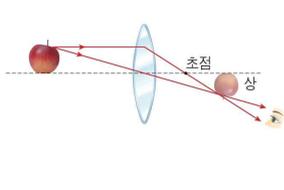
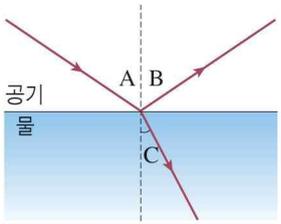
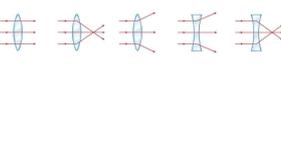
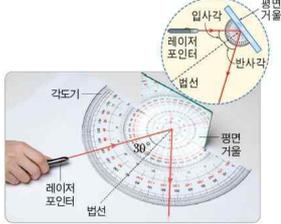
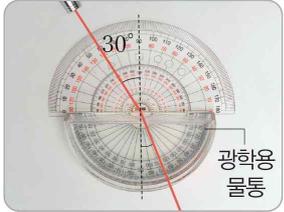
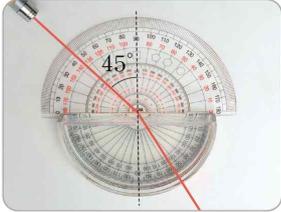
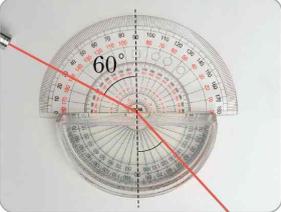
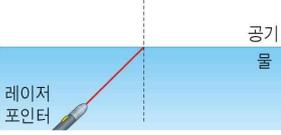
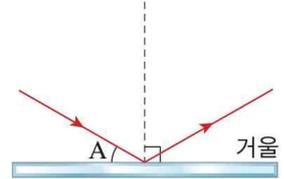
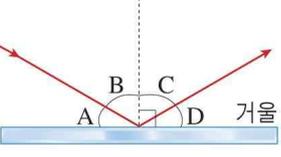
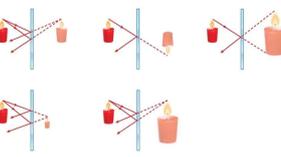
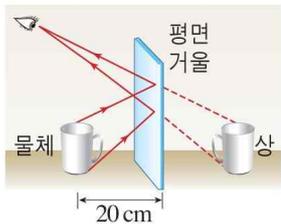
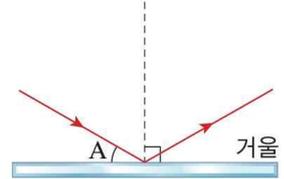
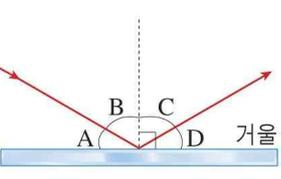
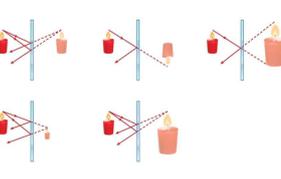
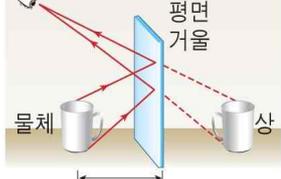
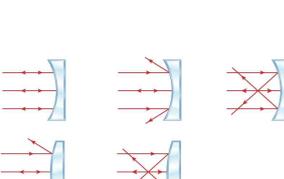
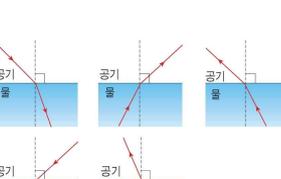
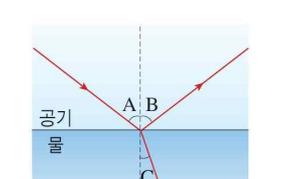
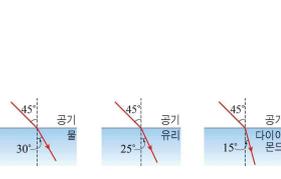
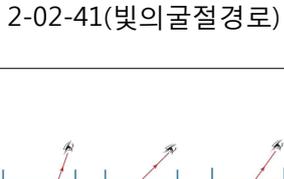
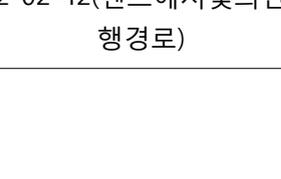
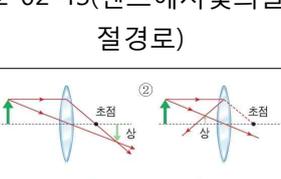
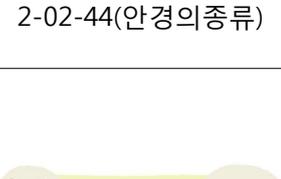
## Ⅱ. 빛과 파동

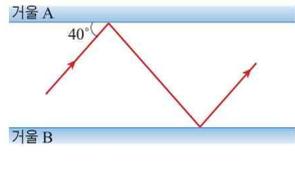
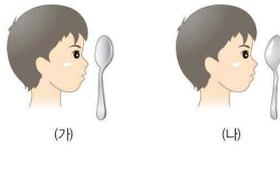
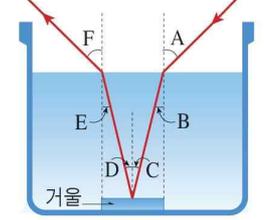
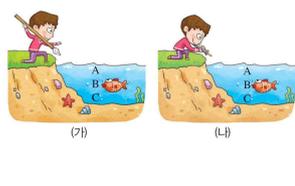
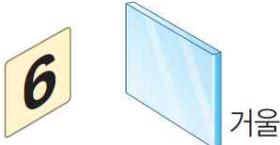
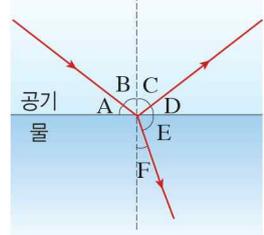
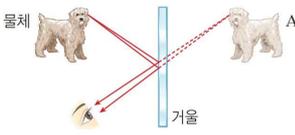
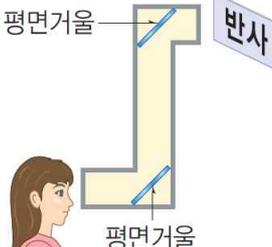
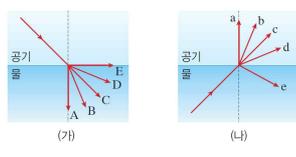
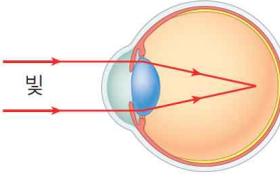
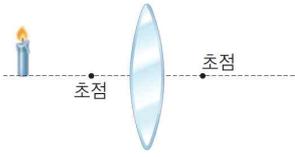
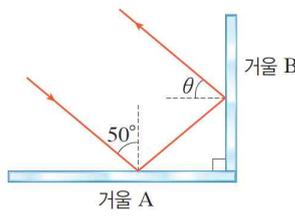
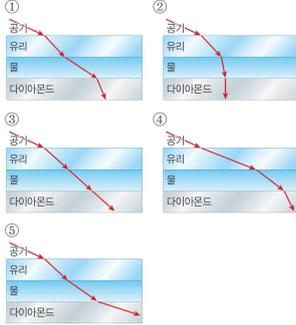
01. 빛과 색			
2-01-01(물체를보는원리)	2-01-02(빛의3원색)	2-01-03(텔레비전)	2-01-04(햇빛에서)
2-01-05(빨간색조명)	2-01-06(초록색조명)	2-01-07(노란색조명)	2-01-08(초록색유리)
2-01-09(빛의3원색)	2-01-10(장미꽃)	2-01-11(사과와잎)	2-01-12(빛의3원색)
2-01-13(장미꽃)	2-01-14(옷의색)	2-01-15(빛의진행경로)	2-01-16(텔레비전)
2-01-17(원판)	2-01-18(초록색셀로판지)	2-01-19(그림자의색)	2-01-20(프리즘 분산)

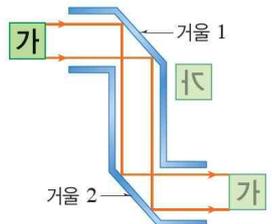
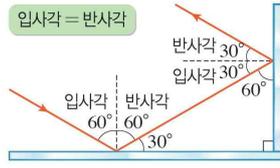
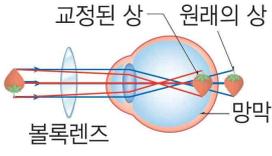
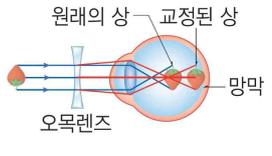
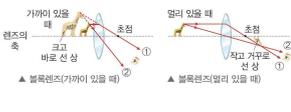
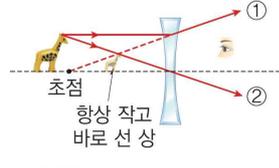
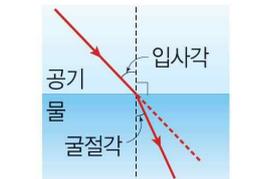
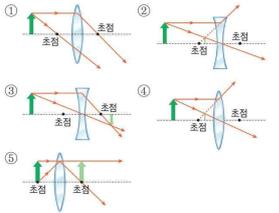
<p>2-01-21(빛의합성)</p>	<p>2-01-22(공)</p>	<p>2-01-23(무지개 원리)</p>	<p>2-01-24(색팽이)</p>
<p>2-01-25(조명과 옷)</p>	<p>2-01-26(투명한 물체)</p>	<p>2-01-27(그림자)</p>	<p>2-01-28(빛의 3원색 합성)</p>
<p>2-01-29(텔레비전)</p>	<p>2-01-30(조명과 옷)</p>	<p>2-01-31(프리즘에서 빛의 분산)</p>	<p>2-01-32(물체의 색-불투명한 물체)</p>
<p>2-01-33(물체의 색-투명한 물체)</p>	<p>2-01-34(무지개의 원리)</p>	<p>2-01-35(파란색유리)</p>	<p>2-01-36(프리즘 분산 문제)</p>
<p>2-01-37(조명에 따른 물체의 색)</p>	<p>2-01-38(초록색 조명에서 장미꽃)</p>	<p>2-01-39(무대 조명과 옷의 색)</p>	<p>2-01-40(흰색 검은색 물체의 색)</p>
<p>2-01-25(조명과 옷)</p>	<p>2-01-30(조명과 옷)</p>	<p>2-01-31(프리즘에서 빛의 분산)</p>	<p>2-01-32(물체의 색-불투명한 물체)</p>

02. 빛의 반사와 굴절

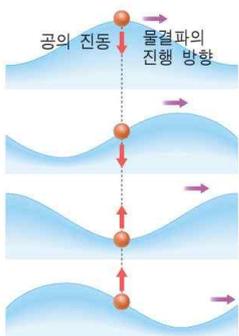
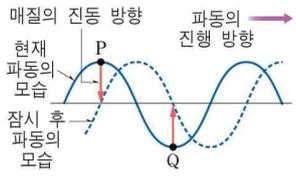
<p>2-02-01(반사법칙)</p> 	<p>2-02-02(정반사)</p> 	<p>2-02-03(난반사)</p> 	<p>2-02-04(상이생기는 원리)</p>  <p>① 물체에서 나온 빛이 거울에 반사된다.          ② 반사 광선의 연장선을 이은 거울 뒤에 상이 생긴다.          ③ 우리 눈은 마치 거울 뒤의 상에서 빛이 오는 것처럼 느낀다.</p>
<p>2-02-05(평면거울의상)</p> 	<p>2-02-06(평면거울의상)</p> <p>과학   후도</p> <p>물체   거울   상</p>	<p>2-02-07(볼록거울)</p> 	<p>2-02-08(볼록거울의상)</p> 
<p>2-02-09(오목거울)</p> 	<p>2-02-10(오목거울의상)</p> 	<p>2-02-11(반사법칙)</p> 	<p>2-02-12(평면거울의상)</p> 
<p>2-02-13(빛의굴절)</p> 	<p>2-02-14(빛의굴절정도)</p> 	<p>2-02-15(빛의굴절방향)</p> 	<p>2-02-16(떠보이는동전)</p> 
<p>2-02-17(떠보이는동전이유)</p> 	<p>2-02-18(꺾이는빨대)</p> 	<p>2-02-19(물고기잡는법)</p> 	<p>2-02-20(볼록렌즈)</p> 
<p>2-02-21(볼록렌즈의상)</p> 	<p>2-02-22(오목렌즈)</p> 	<p>2-02-23(오목렌즈의상)</p> 	<p>2-02-24(가까이있을때)</p> 

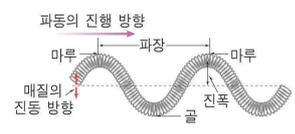
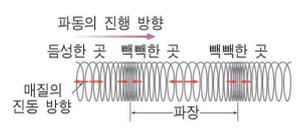
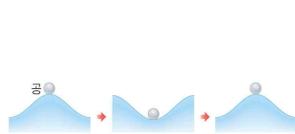
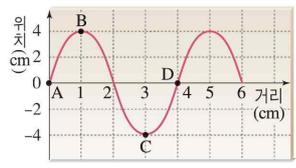
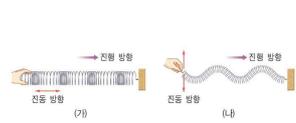
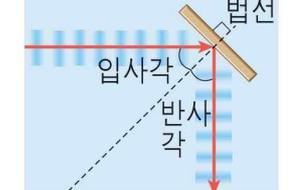
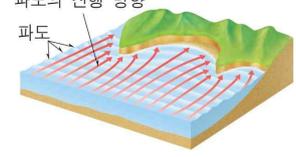
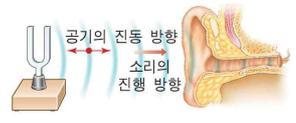
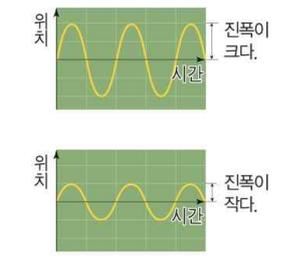
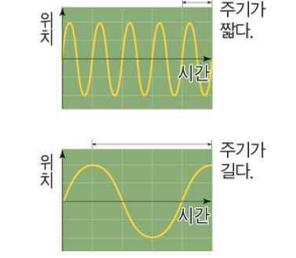
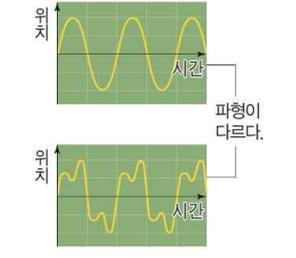
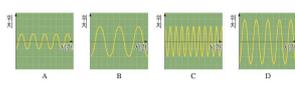
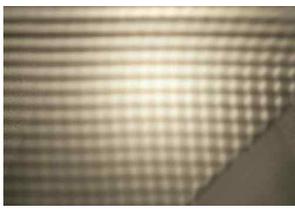
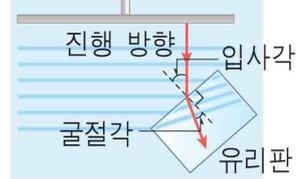
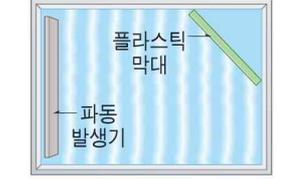
<p>2-02-25(멀리있을때)</p> 	<p>2-02-26(빛의굴절)</p> 	<p>2-02-27(빛의진행경로)</p> 	<p>2-02-28(빛의반사실험)</p> 
<p>2-02-29(빛의굴절실험1)</p> 	<p>2-02-30(빛의굴절실험2)</p> 	<p>2-02-31(빛의굴절실험3)</p> 	<p>2-02-32(빛의굴절)</p> 
<p>2-02-33(반사법칙)</p> 	<p>2-02-34(반사법칙)</p> 	<p>2-02-35(평면거울에서 빛의진행경로)</p> 	<p>2-02-36(평면거울의상)</p> 
<p>2-02-37(거울에서 빛의진행 경로)</p> 	<p>2-02-38(굴절에서 빛의진행 경로)</p> 	<p>2-02-39(빛의굴절)</p> 	<p>2-02-40(빛이굴절하는 정도)</p> 
<p>2-02-41(빛의굴절경로)</p> 	<p>2-02-42(렌즈에서 빛의진행 경로)</p> 	<p>2-02-43(렌즈에서 빛의굴절 경로)</p> 	<p>2-02-44(안경의종류)</p> 
<p>2-02-41(빛의굴절경로)</p> 	<p>2-02-42(렌즈에서 빛의진행 경로)</p> 	<p>2-02-43(렌즈에서 빛의굴절 경로)</p> 	<p>2-02-44(안경의종류)</p> 

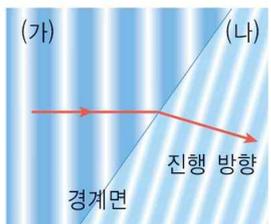
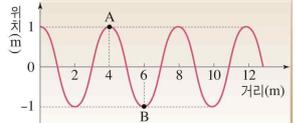
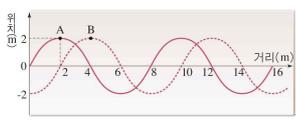
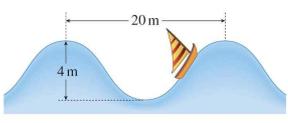
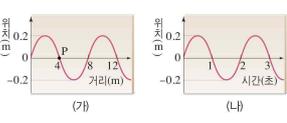
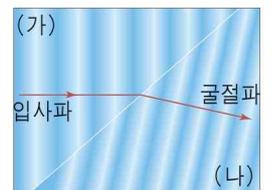
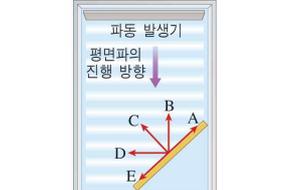
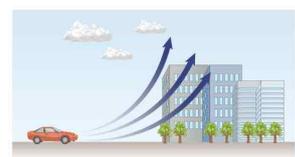
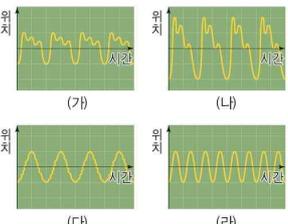
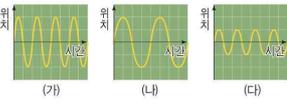
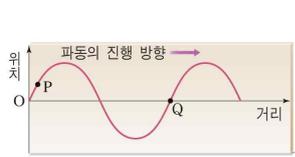
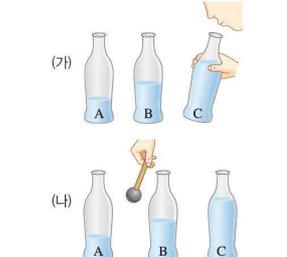
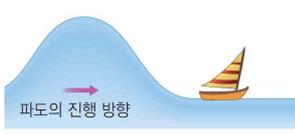
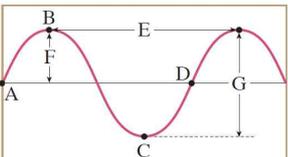
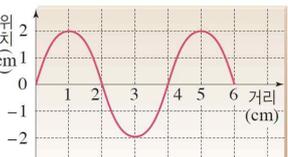
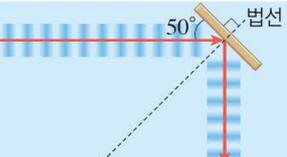
2-02-45(반사법칙)	2-02-46(손가락)	2-02-47(빛의반사와굴절)	2-02-48(물고기잡는법)
			
2-02-49(볼록렌즈의상)	2-02-50(평면거울)	2-02-51(빛의 굴절)	2-02-52(평면거울)
			
2-02-53(평면거울의 상)	2-02-54(앰블런스)	2-02-55(잠망경)	2-02-56(평면거울에 의한 상)
			<p>① 반사    ② 복사    ③ 사변</p> <p>④ 사반    ⑤ 투과</p>
2-02-57(오목거울)	2-02-58(빛의굴절)	2-02-59(근시)	2-02-60(볼록렌즈)
			
2-02-61(평면거울)	2-02-62(빛의 굴절)	2-02-63(평면거울에서 빛의 반사)	2-02-64(볼록거울에 의한 상)
			

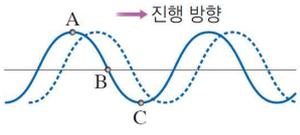
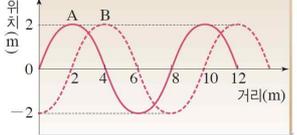
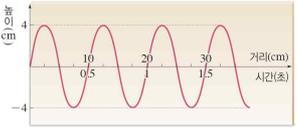
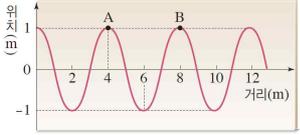
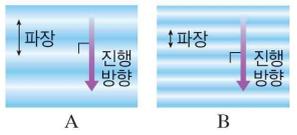
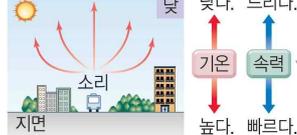
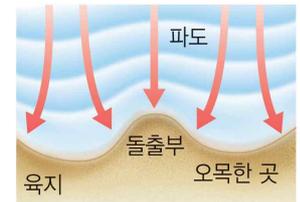
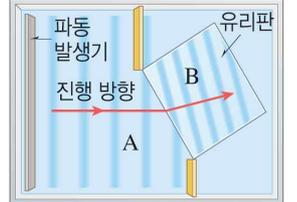
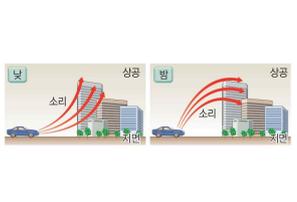
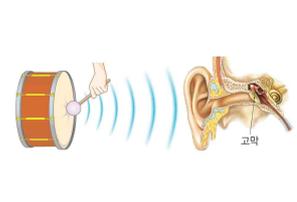
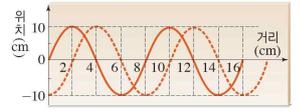
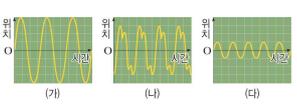
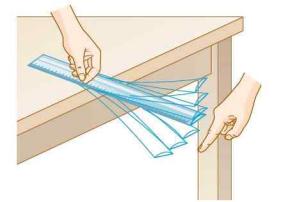
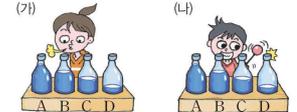
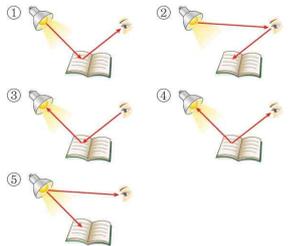
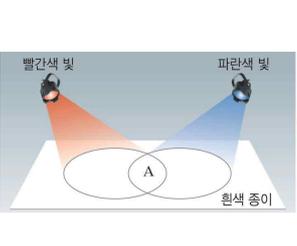
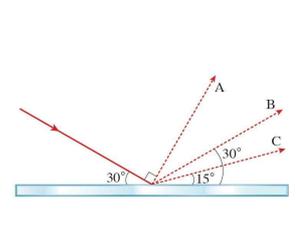
<p>2-02-65(오목거울에 의한 상)</p> 	<p>2-02-66(잠망경을 통해 본 상)</p> 	<p>2-02-67(두 거울에서 빛의 반사)</p> 	<p>2-02-68(볼록렌즈에 의한 상)</p> 
<p>2-02-69(오목렌즈에 의한 상)</p> 	<p>2-02-70(원시 교정)</p> 	<p>2-02-71(근시 교정)</p> 	<p>2-02-72(볼록렌즈에 의한 상의 작도)</p> 
<p>2-02-73(오목렌즈에 의한 상의 작도)</p>  <p>▲ 오목렌즈</p>	<p>2-02-74(빛의 굴절)</p> 	<p>2-02-75(공기와 유리에서 빛의 굴절)</p> 	<p>2-02-76(오목렌즈에 의한 상)</p>  <p>▲ 가까이 있을 때 ▲ 멀 때 ▲ 아주 멀 때</p>
<p>2-02-77(렌즈에 의한 상의 작도)</p> 			

### 03. 파동과 소리

<p>2-03-01(공의진동)</p> 	<p>2-03-02(매질의진동방향)</p> 	<p>2-03-03(거리-위치그래프)</p>  <p>▲ 거리에 따른 파동의 모습</p>	<p>2-03-04(시간-위치그래프)</p>  <p>▲ 시간에 따른 파동의 모습</p>
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2-03-05(횡파)	2-03-06(종파)	2-03-07(구면파)	2-03-08(평면파)
			
2-03-09(공의진동)	2-03-10(거리-위치그래프)	2-03-11(파동의종류)	2-03-12(파동의반사)
			
2-03-13(파동의굴절)	2-03-14(파도의굴절)	2-03-15(소리의전달)	2-03-16(소리의굴절)
			
2-03-17(소리의크기)	2-03-18(소리의높낮이)	2-03-19(소리의맵시)	2-03-20(소리의파형)
			
2-03-21(물결파투영장치)	2-03-22(물결파의반사)	2-03-23(물결파의굴절)	2-03-24(물결파의반사결과)
			
2-03-25(물결파의굴절결과)	2-03-26(물결파의반사해석)	2-03-27(물결파의굴절해석)	2-03-28(물결파의반사)
			

<p>2-03-29(물결파의굴절)</p> 	<p>2-03-30(축구공의진동)</p> 	<p>2-03-31(에너지의전달)</p> 	<p>2-03-32(물결파의발생)</p> 
<p>2-03-33(거리-위치그래프)</p> 	<p>2-03-34(거리-위치그래프)</p> 	<p>2-03-35(파도)</p> 	<p>2-03-36(파동그래프)</p> 
<p>2-03-37(파동의종류)</p> 	<p>(가) 입사파 (incident wave) and (나) 굴절파 (refracted wave) diagram showing a wave hitting a boundary and bending.</p> 	<p>2-03-39(물결파의반사)</p> 	<p>2-03-40(북의진동)</p> 
<p>2-03-41(소리의굴절)</p> 	<p>2-03-42(소리의전달)</p> 	<p>2-03-43(소리의파형)</p> 	<p>2-03-44(소리의파형)</p> 
<p>2-03-45(매질의진동방향)</p> 	<p>2-03-46(물결파의굴절)</p> 	<p>2-03-47(소리의전달)</p> 	<p>2-03-48(소리의높낮이)</p> 
<p>2-03-49(물결파)</p> 	<p>2-03-50(파동의표시)</p> 	<p>2-03-51(파동그래프)</p> 	<p>2-03-52(파동의반사)</p> 

<p>2-03-53(매질의운동)</p> 	<p>2-03-54(파동그래프)</p> 	<p>2-03-55(파동그래프)</p> 	<p>2-03-56(파동의굴절실험)</p> 
<p>2-03-57(파동그래프)</p> 	<p>2-03-58(파동의 진행 방향과 물의 깊이)</p> 	<p>2-03-59(낮에 소리의 굴절)</p> 	<p>2-03-60(밤에 소리의 굴절)</p> 
<p>2-03-61(파도가 굴절하는 이유)</p> 	<p>2-03-62(물결파의 굴절)</p> 	<p>2-03-63(소리의 굴절)</p> 	<p>2-03-64(복소리의 전달)</p> 
<p>2-03-65(파동 그래프)</p> 	<p>2-03-66(소리의 파형)</p> 	<p>2-03-67(쇠자의 진동)</p> 	<p>2-03-68(소리내기)</p> 
<p>2-03-69(물체를 보는 과정)</p> 	<p>2-03-70(색원판의 합성)</p> 	<p>2-03-71(두 조명의 합성)</p> 	<p>2-03-72(거울에서 빛의 반사)</p> 

<p>2-03-73(볼록렌즈에 의한 상의 작도)</p>	<p>2-03-74(물결파의 진행)</p>	<p>2-03-75(파동 그래프)</p>	<p>2-03-76(파동 그래프)</p>
<p>2-03-77(용수철 파동)</p>	<p>2-03-78(소리의 파형)</p>		