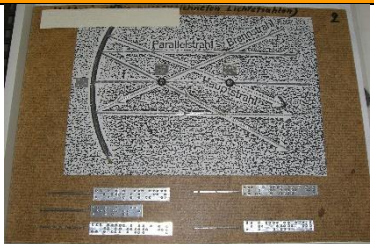
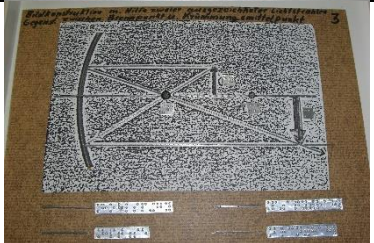
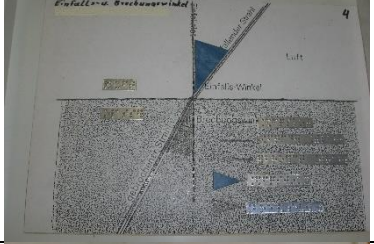
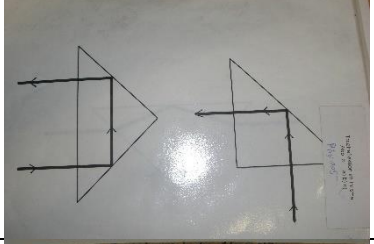
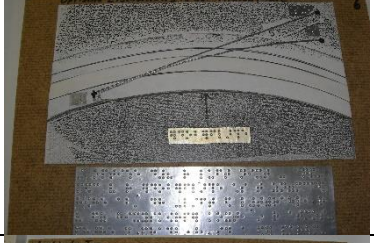

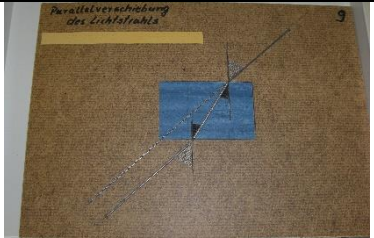
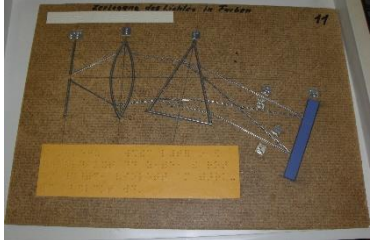
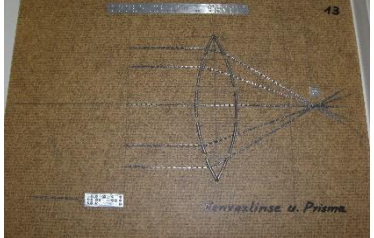
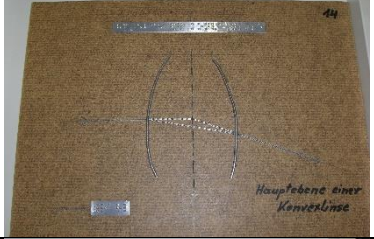
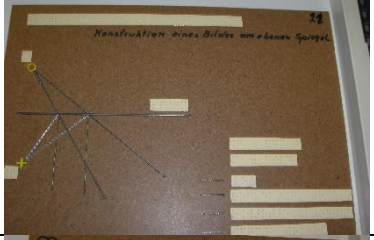
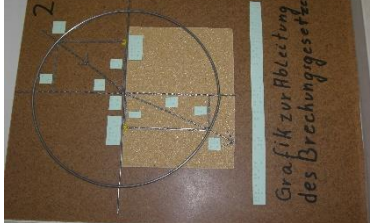


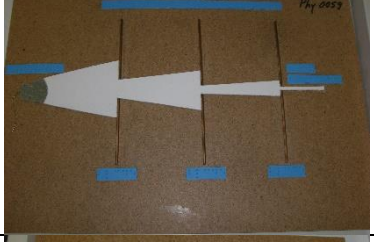
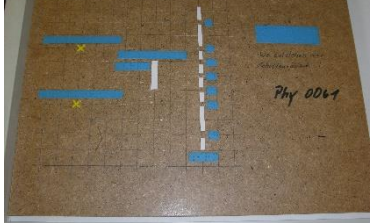


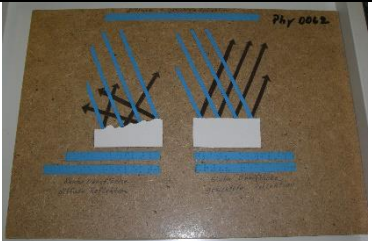
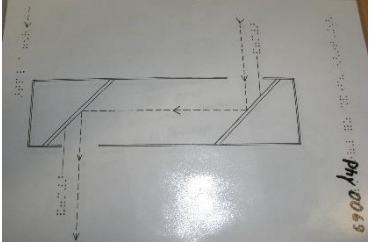
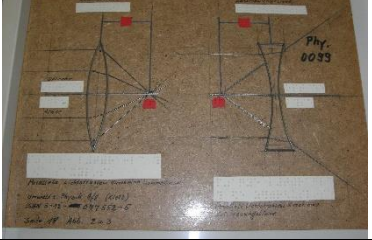
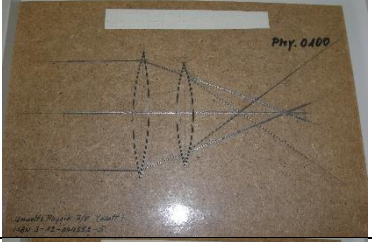
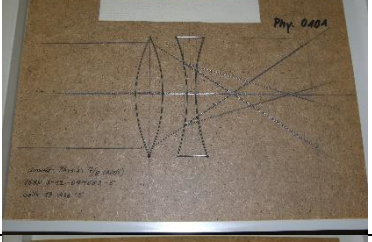
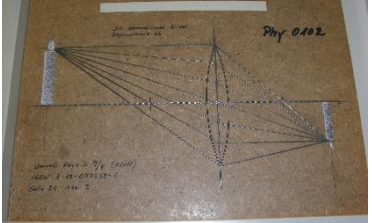
TOP0001 Optik

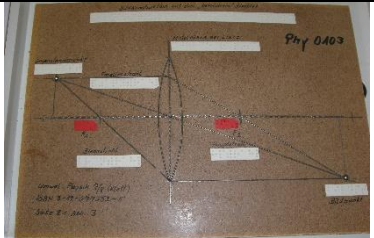
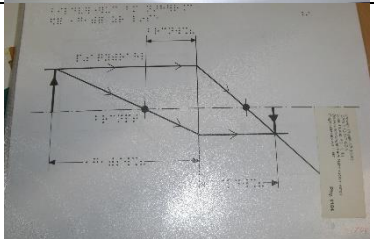
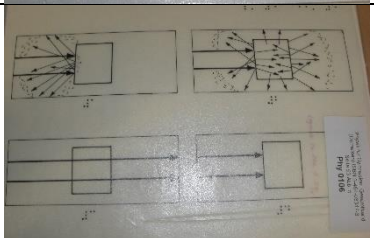
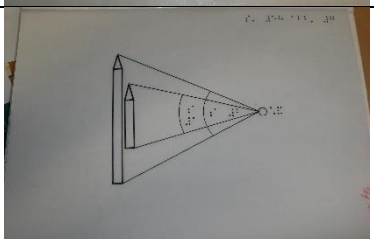
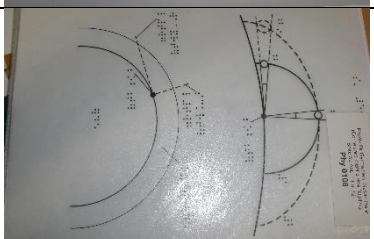
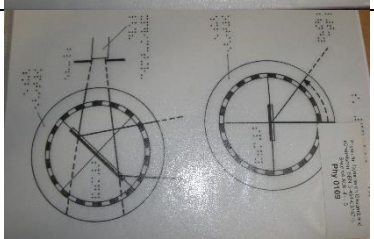
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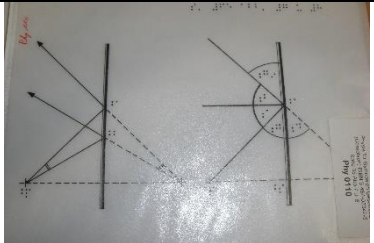
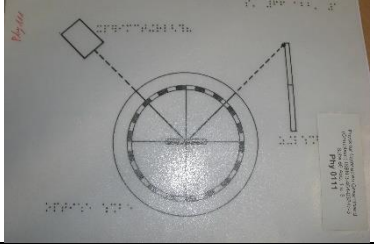
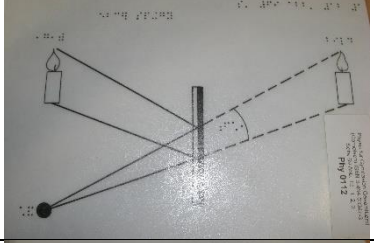
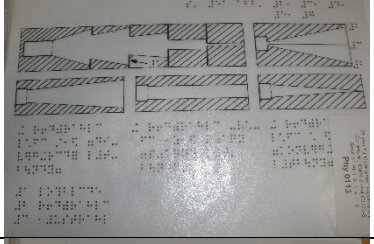
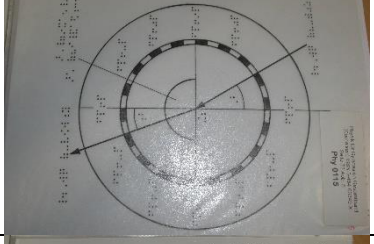
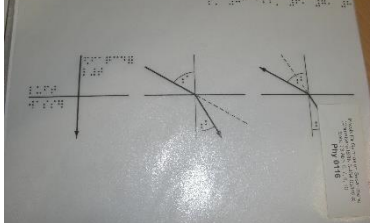
Signatur	Titel	Bild
PHY0002	Hohlspiegel (Die ausgezeichneten Lichtstrahlen)	
PHY0003	Bildkonstruktion mit Hilfe zweier ausgezeichnete Lichtstrahlen. Gegenstand zweier Brennpunkte u. Krümmungsmittelpunkt	
PHY0004	Einfalls - u. Brechungswinkel	
PHY0005	Totalreflektion (a 90°) (b 180°) (c Umkehrprisma)	
PHY0006	Optische Erscheinung in der Atmosphäre	
PHY0007	Arabische Fee (Fata Morgana)	

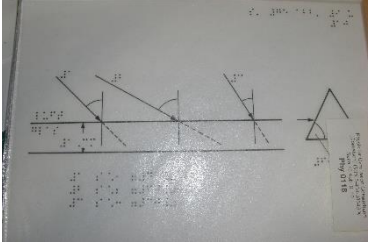
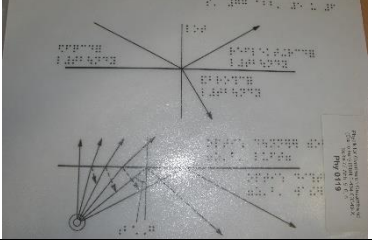
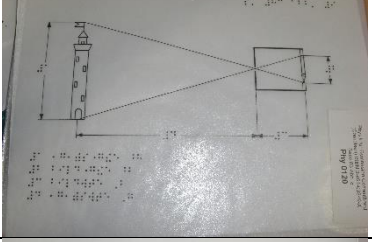
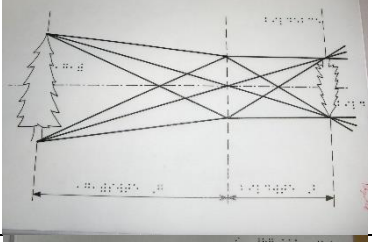
Signatur	Titel	Bild
PHY0009	Parallelverschiebung des Lichtstrahls	
PHY0011	Zerlegung des Lichtes in Farben	
PHY0013	Konvexlinse u. Prisma	
PHY0014	Hauptebene einer Konvexlinse	
PHY0021	Konstruktion eines Bildes am ebenen Spiegel	
PHY0023	Graphik zur Ableitung des Brechungsgesetzes	

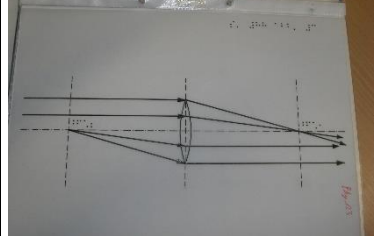
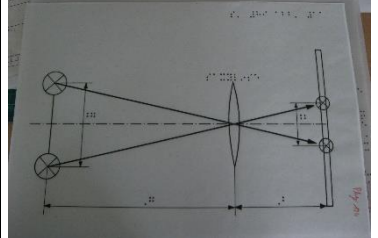
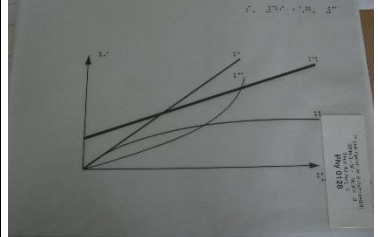
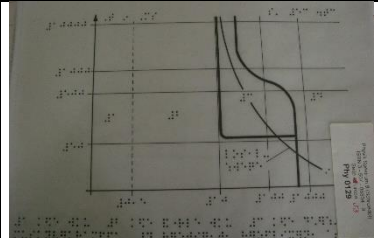
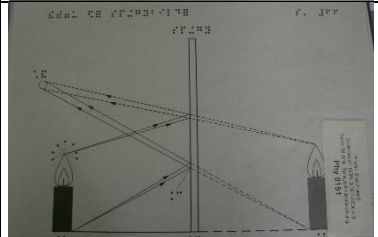
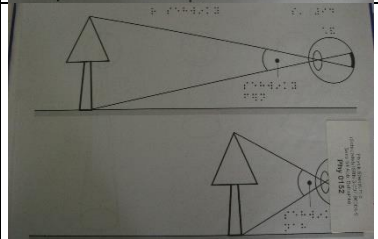
Signatur	Titel	Bild
PHY0029	Graphische Darstellung des Zusammenhangs zwischen Einfallswinkel und Brechungswinkel	
PHY0030	Bildentstehung bei der Lochkamera	
PHY0041	Einfallswinkel u. Ausfallswinkel am ebenen Spiegel	
PHY0055	Die unsichtbaren Körper 1 und 2 behindern die Lichtausbreitung	
PHY0059	Lichtbündel an verschiedenen Lochblenden	
PHY0061	Wo entstehen hier Schattenräume (Aufgabe)	

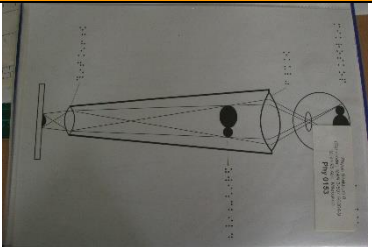
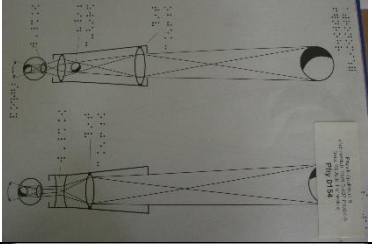
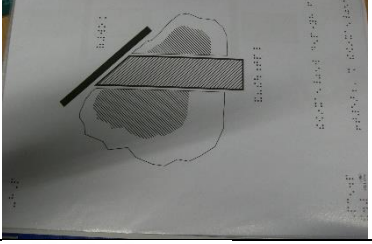
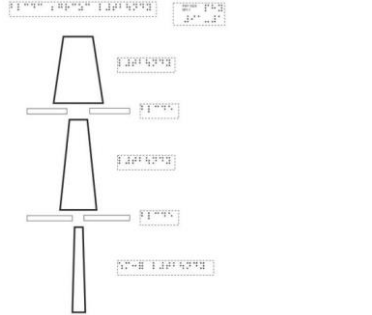
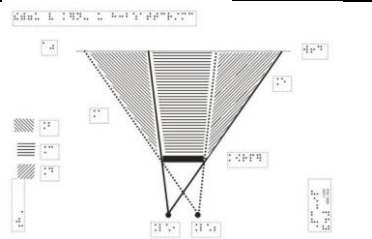
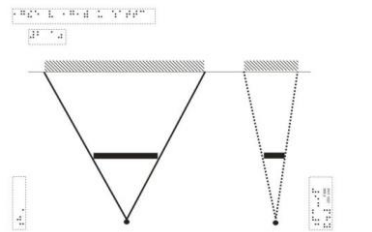
Signatur	Titel	Bild
PHY0062	Diffuse und gerichtete Reflektion	
PHY0069	Schematische Darstellung eines Periskops	
PHY0099	Sammellinse / Zerstreuungslinse	
PHY0100	Parallele Lichtstrahlen durch 2 Sammellinsen	
PHY0101	Parallele Lichtstrahlen durch eine Sammel- u. Zerstreuungslinse	
PHY0102	Die Sammellinse bildet Gegenstände ab	

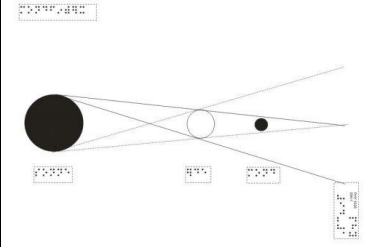
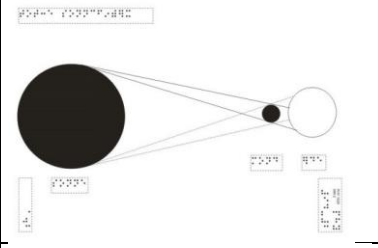
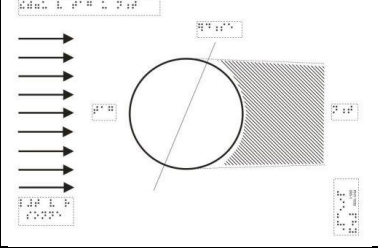
Signatur	Titel	Bild
PHY0103	Bildkonstruktion mit drei besonderen Strahlen	
PHY0104	Bildveränderungen beim Näherrücken eines Gegenstandes zur Linse	
PHY0106		
PHY0107	Scheinbarer Bildwinkel	
PHY0108	Scheinbare Größe von Sonne und Mond im Zenit und am Horizont	
PHY0109	Reflektion am ebenen Spiegel	

Signatur	Titel	Bild
PHY0110	Entstehung des Spiegelbildes am ebenen Spiegel	
PHY0111		
PHY0112	Bildentstehung am nach außen gewölbten Spiegel	
PHY0113	Eingrenzung von Lichtbündel; divergente, parallele, konvergente Lichtbündel	
PHY0115	Lichtbrechung am Glaskörper	
PHY0116	Brechungsgesetz	

Signatur	Titel	Bild
PHY0117	Lichtbrechung an der Wasseroberfläche	
PHY0118	Aufgaben zur Lichtbrechung	
PHY0119	Grenzwinkel der Totalreflektion, Lichtleiter	
PHY0120	Lochkamera	
PHY0121	Sammellinse als Lupe	
PHY0122	Abbildung einer Sammellinse	

Signatur	Titel	Bild
PHY0123		
PHY0124	Geometrische Herleitung der Abbildungsgleichung	
PHY0128		
PHY0129		
PHY0151	Bildentstehung am ebenen Spiegel	
PHY0152	Sehwinkel	

Signatur	Titel	Bild
PHY0153	Mikroskop	
PHY0154	Astronomisches u. Galilei - Fernrohr	
PHY1024	Reflexion und Absorption	
PHY1025	Blenden begrenzen Lichtbündel	
PHY1026	Entstehung von Kern- und Halbschattenräumen	
PHY1027	Größe von Gegenstand und Schatten	

Signatur	Titel	Bild
PHY1028	Mondfinsternis	
PHY1029	totale Sonnenfinsternis	
PHY1030	Entstehung von Tag und Nacht	
PHY1031	Die Mondphasen	