

Light and Optics

¹ C	R	I	T	² I	C	A	L												
O				N				³ V	I	R	T	U	A	L					
L				V				I											
O		⁴ P	R	I	S	M		S											
U				S				I											
⁵ R	E	D		I				B											
				B				L											
				L		⁶ S	⁷ P	E	C	T	R	U	M						
⁸ C	O	N	⁹ V	E	X		H												
O			A				O			¹⁰ A		¹¹ W		¹² R					
N			¹³ C	R	¹⁴ E	S	T	¹⁵ T		M		A		E					
C			U		R		O		R		P		V		F				
A			U		E		N		O		L		E		R				
V			M		C				U		I		L		A				
E				¹⁶ S	T	R	A	I	G	H	T		E		C				
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											D		G		I				
								¹⁷ R	E	F	L	E	C	T	I	O	N		
													H		N				

Across

1. Light rays in optical fibre travel at the ____ angle for total internal reflection.[8]
3. Opposite of "real".[7]
4. Transparent object with flat surfaces that is used to separate the visible light spectrum.[5]
5. Visible light with longest wavelength.[3]
6. Seven colours of visible light.[8]
8. Type of lens e.g. magnifying glass.[6]
13. Top of a wave.[5]
16. Light travels in ____ lines.[8]
17. In a plane mirror, the angle of incidence equals the angle of ____.[10]

Down

1. The ____ of objects is that light reflected back to our eyes.[6]
2. Infrared and ultraviolet are examples of ____ light.[9]
3. Light that humans can see.[7]
7. Light particle.[6]
8. Type of lens that diverges light rays.[7]
9. Speed of light in a ____ is 300000 kilometres per second.[6]
10. Height of a wave.[9]
11. Distance between crests of consecutive waves.[10]
12. "Bending" of light.[10]
14. Opposite of "inverted".[5]
15. Bottom of a wave.[6]