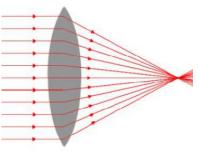
Lenses and Images



10

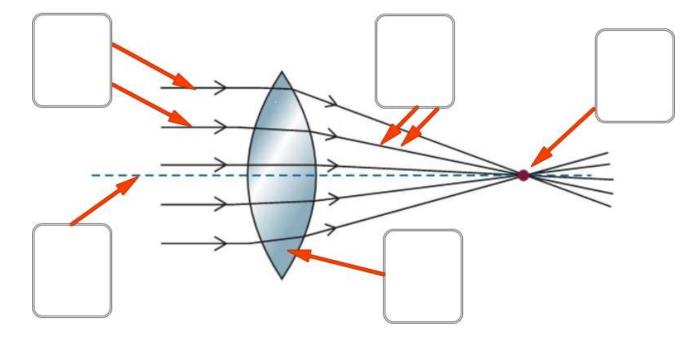
1. <u>(a)</u> form <u>(b)</u> by <u>(c)</u> light and <u>(d)</u> _ its <u>(e)</u>__ __. There are 2 main types of lens - convex or (f) and (g) or diverging. They have different (h) and have (i) effects on (j) rays.

images changing shapes converging

refracting direction

Lenses concave opposite light

2. Study the diagram below, in the boxes label the parts indicated by the red arrows.



3. In a short paragraph, explain what is meant by a "real image"

- 4. The virtual image is formed when the light rays from point on an object are diverging after they have left the lens. A virtual image cannot be projected onto a screen.
 - True
- False

7	Э.	LOO	k at the pr	ompts below and enter the appropriate name for what is being described.	
1		a.	This is a twhich bul outwards	ype of lens ges	
		b.		ype of lens ves inwards	
		C.	middle of	rough the	
		d.		e distance centre of the e principal	
		e.		arallel rays divert (that	
		f.	which are	of lens ys of light parallel to converge	
		g.	point is th		
6	6.	Look at the statements below concerning convex lenses and decide which are true and which are false			
		а.	TF	Another name for a convex lens is a diverging lens	
		b.	TF	An incident ray passing through the principal focus before meeting the lens refracts through the lens and travels parallel to the axis	
		C.	TF	In a convex lens there is a principal focus on each side of the lens	
		d.	TF	A convex lens is a lens in which one or both sides curves inwards	
		е.	TF	An incident ray travelling parallel to the axis reflects back through the lens and passes through the principal focus on the same side as the incident ray's origin.	
		f.	TF	An incident ray passing through the centre of the lens will carry on in the same direction	