

STEM PROGRAMME

LESSON PLAN

Science of the Selfie

Slide	Subject	Description	Timing
1	Introduction to course and topic		5 mins
2	The History of Glass	Discuss the development of glass from discovery through refinement and the development of lenses through spectacles, telescopes. Pupils to list 10 products made from glass and say why glass is a good material for them. (Could be done as a group).	10 mins
3	Lenses	Pupils should be made aware of the concept of light bending as it passes through different substances.	5 mins
4	Lens Manufacturing	Show video of lens manufacturing process. Pupils to record key stages on their worksheets.	10 mins
	Lens activity	Working in pairs and with different size/ number of lenses, pupils to record magnified images of objects around them on camera.	10 mins
5	Mirrors	Discuss the development of mirrors, including properties. Pupils to record major developments.	5 mins
6	Self Portraits	Discuss how the first self portraits, with examples, came about as a result of the development of mirrors. Use cameras and mirrors to take a range of imaginative self portraits.	10 mins
6	Summary	Recap on main points of learning in today's session.	5 mins

Resources:

Cameras

Range of different sizes of magnifying (convex) lenses

Class set of Mirrors