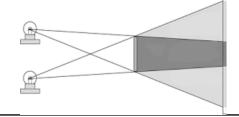
Grades 5 - 8 Duration: 20 min Tools: one 9 pcs Set / 1 to 4 students Individual / Pair / Group work Keywords: Light, Shadow	Optics PHYSICS	COGIFACES ECOGIFACES Erasmus+ TEAACHEER Logifaces
DESCRIPTION		
1. Examine the shadow of a point light source (e.g. phone torch)		
a. What do the shadows look like that you can create with it?		
b. What happens to the shadow when you move the block towards or away from the light source?		
c. How does the shadow change when you change the angle of the light source?		
2. Examine the shadow of an extended light source (e.g. 2 phone torches)		
a. What do the shadows look like that you can create?		
b. What happens to the shape of the shadow when you move the blocks towards or away from the light sources?		
c. How does the shadow change when you change the angle of the light sources?		
SOLUTIONS / EXAMPLES		

1. one light source: you can see the block casts a sharp shadow, which gets bigger when you move the block away from the light source

2. two light sources/extended light source: you can see a dark shadow (core shadow) and lighter shadows (partial shadow), which also change by moving the block.

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## PRIOR KNOWLEDGE

None

**RECOMMENDATIONS / COMMENTS**