

## Lesson 1.1 - Light and Shadows

*Student Workbook Component*

### Warm Up – Scientific Investigation

*What time of day is it in different cities of the world?*

Record your observations, predictions and the results in the chart below.

<i>Observation</i>	<i>Prediction</i>	<i>Result</i>
1.		
2.		
3.		
4.		

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### Student Workbook Component

#### Mini-lesson

*How do light and shadows affect our everyday lives?*

#### Keyword Review

Match each keyword to its definition.

Pollution	a dark figure cast on a surface by an object that is between the surface and the light
Clear	something that makes vision possible
Shadow	power obtained by harnessing the energy of the sun's rays
Opaque	not able to be seen through; not transparent
Light	easily seen, heard or understood
Solar Power	introduction of contaminants into the natural environment that cause adverse change

**Let's Discuss:** *In your workbook or with a partner, record, discuss or share an example of how the sun's movement creates shadows?*

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#### Challenge 1

Create a system to test how shadows are formed.

Record your observations, predictions and the results in the chart below.

Observation	Prediction	Result
Eg. The red light casts less of a shadow than the yellow light.	Eg. The blue and green light will also cast less of a shadow	

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### *Student Workbook Component*

We can use transitional phrases to talk about the order events or actions that take place. Practice by using transitional phrases in order to present your results.

Time & Sequence	Compare (+)	Contrast (-)	Cause and Effect
first/second/third	also	but	because
next	equally	however	so
after	likewise	otherwise	therefore
then	in addition	on one hand... ...on the other hand	as a result
finally/overall/to sum up	similarly	opposite	due to