



# Lesson 1 Teacher Answers

## What Are Things Made Of?

Slide 2

A beach is made of lots of little

sand grains.

Slide 4

Sand grains are the basic

building blocks of a beach.

Slide 8

The basic building blocks of a Lego toy are Lego bricks.

The basic building blocks of a forest are trees.

The basic building blocks of a cloud are water droplets.

The basic building blocks of a mob of sheep are sheep.

Slide 10:

Does he REALLY have a big mouth? No

Can you explain what's going on?

The magnifying glass makes his mouth SEEM/LOOK/APPEAR bigger.

Slide 12:

The image is bigger than the object.

Slide 15:

**Droplet magnifier:**

How did the print look through the magnifier, compared to the print without the magnifier?

The print looks bigger when seen through the magnifier. OR The image of the print is bigger than the print itself.

Do you think the magnifier has *actually* made the print bigger?

No. It just looked bigger because it was magnified.



Drawing of s letter before magnification



Drawing of a letter after magnification

What do you think 30x and 100x mean?

Slide 17:

30x means that it magnifies 30 times OR  
30x means that the magnifying power is 30 times. OR  
30x means that the image is 30 times bigger than the object. (best

**30x magnifier:**

My finger looks bigger through the magnifier.

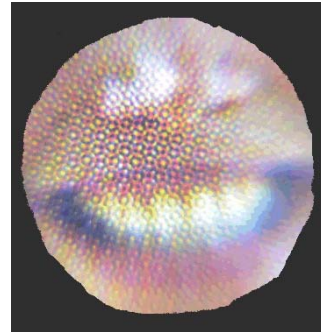
Slide 20:

Does the magnifier actually make my finger bigger? No

Explain: Only the image of my finger is bigger. My actual finger is the same size.

Draw the image of the boy's face through the magnifier below. Describe how it looks.

The photograph looks like a lot of little ink dots.

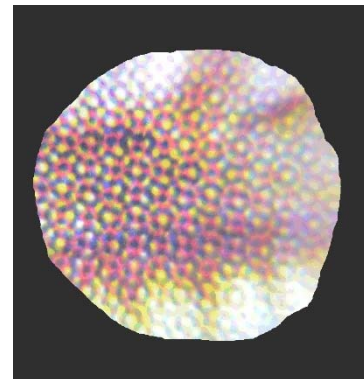


**100x microscope:**

Compare the image using the 30x magnifier to the image using the 100x microscope.

Slide 21:

The image dots are bigger with the 100x microscope.



Which is more powerful? The 30x magnifier or the 100x microscope?

The 100x microscope is more powerful.