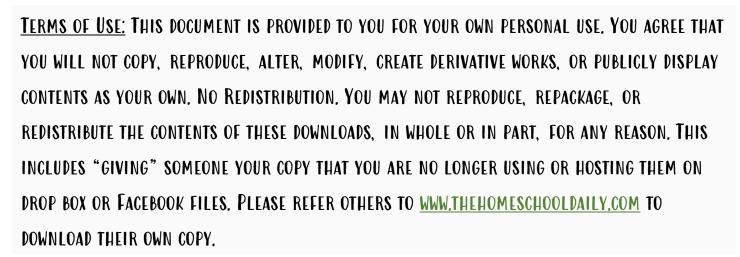


MARIE - CREATOR OF THE HOMESCHOOL DAILY

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Types of Microscopes Guided Notes

• Wha	t is a microscope?
0	
	invention made it possible for us to discover and learn about
	microscope to be useful, it must combine two important properties-
	and
• Wha	t is magnification?
0	
Micr	oscopes magnify things that are too to see with our eyes
	t is resolution?
0	
	ntists use 2 types of microscopes:
0	Microscopes
0	Microscopes
• Wha	t is a light microscope?
0	A light microscope magnifies an image by
	- · · · · · · · · · · · · · · · · · · ·
0	Also known as an microscope
0	You would use a light microscope in your class

2 Mc	ain Types of Light Microscope	es .	
0	Microscope		
0	Microscope		
Wha	t is a stereo microscope?		
0	Typically used to inspect		, and
	objects, such as	or	-
0	Also called	Microscope	
0	magnification	than the compound r	nicroscope
0	Light is of	f the object	
0	Only magnifies		
Wha	t is a compound microscope?		
0	Commonly used to view some	thing in detail that yo	ou
		, such as	or
	on a glass slic	de	
0	Also called	Microscope	
0	is	through t	he object
0	Specimen is encased in a	 	for viewing
0	magnificat	ion than	
0	The overall magnification of	a compound microsco	pe is calculated by
	the	magnification of botl	h lenses together.
0	Magnifies	_	_
	t microscope would inspect th		
	cells?		

What is an electron microscope?	
An electron microscope uses a	
instead of light to produce a magnified image.	
 2 Main Types of Electron Microscopes 	
o Electron Microscope (SEM)	
o Electron Microscope (TEM)	
What is a Scanning Electron Microscope?	
o Known as	
o Creates an image by detecting	or knocked-off
Provides α	
 Can magnify up totimes 	
What is a Transmitting Electron Microscope?	
 Known as 	
 Uses transmitted electrons (electrons which are 	
the sample) to creat	te an image.
o Provides a	
 Can magnify samples by more than 	times
 TEM would be used to study a 	
• Electron Microscope (SEM) focuses o	on the
of a specimen while the	Electron
Microscope (TEM) focuses on the	

A microscope is an important scientific tool. Microscopes help scientists and doctors see things that are too small to see with their eyes by making them appear larger. When microscopic things can be seen, they can then be examined and studied.

Microscopes are also commonly used in schools to help students in science
classes such as biology or chemistry. Why do you think microscopes are
important tools for scientists?