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♥ Marie



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Types of Microscopes Guided Notes

- What is a microscope?
 - _____

- This invention made it possible for us to discover and learn about _____.
- For a microscope to be useful, it must combine two important properties- _____ and _____.
- What is magnification?
 - _____

- Microscopes magnify things that are too _____ to see with our eyes.
- What is resolution?
 - _____
- Scientists use 2 types of microscopes:
 - _____ Microscopes
 - _____ Microscopes
- What is a light microscope?
 - A light microscope magnifies an image by _____

 - Also known as an _____ microscope
 - You would use a light microscope in your class

- 2 Main Types of Light Microscopes

- _____ Microscope

- _____ Microscope

- What is a stereo microscope?

- Typically used to inspect _____, _____, and _____ objects, such as _____ or _____

- Also called _____ Microscope

- _____ magnification than the compound microscope

- Light is _____ off the object

- Only magnifies _____

- What is a compound microscope?

- Commonly used to view something in detail that you _____
_____, such as _____ or _____
_____ on a glass slide

- Also called _____ Microscope

- _____ is _____ through the object

- Specimen is encased in a _____ for viewing

- _____ magnification than _____

- The overall magnification of a compound microscope is calculated by _____
_____ the magnification of both lenses together.

- Magnifies _____

- What microscope would inspect the bug? _____

The 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
 - _____ Electron Microscope (SEM)
 - _____ Electron Microscope (TEM)
- What is a Scanning Electron Microscope?
 - Known as _____
 - Creates an image by detecting _____ or knocked-off _____
 - Provides a _____
 - Can magnify up to _____ times
- What is a Transmitting Electron Microscope?
 - Known as _____
 - Uses transmitted electrons (electrons which are _____ the sample) to create an image.
 - Provides a _____
 - Can magnify samples by more than _____ times
 - TEM would be used to study a _____
- _____ Electron Microscope (SEM) focuses on the _____ of a specimen while the _____ Electron Microscope (TEM) focuses on the _____.

