## Cheatography

## Cell Structure Module 2 Cheat Sheet by Alina via cheatography.com/64391/cs/16258/

Light Microscope Vs Electron Microscope		Eukaryotic Cell Structure (cont)	
Light Microscope	Electron Microscope	Lysosomes - No clear internal structure - Conatins hydrolytic	
Inexpensive to buy and	Expensive to buy	enzymes which breakdown waste and organelles	
operate Small and		Centrioles - Help to position organisms with a flagella and cilia	
portable	Vacuum is required	Ribosomes - Site of protein synthesis	
Simple sample preparation	Preparation often distorts material	Golgi       - Modifies proteins and         apparatus       'packages' them in to         vesicles to leave the cells or	
Natural	Black & white images	lysosomes to stay in the cell	
colour of sample is seen (or stains are used)	produced (but can be coloured digitally)	Cytoskeleton: - Microfilaments Cell movement Contraction during cytokinesis - Microtubules	
Up to x2000 magnification	Over x500,000 magnif- ication	<ul> <li>Forms a stable structure determining cell shape</li> <li>Acts as a track to determine movement e.g. vesicles</li> <li>Make up spindle fibres that separate chromosomes</li> <li>Intermediate Fibres</li> <li>Mechanical strength, helping to keep integrity</li> </ul>	
Resolving power is 200nm	Resolving power of a TEM microscope is 0.5mm and a scanning electron microscope is 3 – 10nm		
Specimen can be living or dead	Specimen are dead		

## Eukaryotic Cell Structure

Nucleus	<ul> <li>Contains coded genetic</li> <li>information</li> <li>Directs synthesis of proteins</li> <li>Controls metabolic activities</li> <li>Nuclear envolope has pores</li> <li>to allow molecules to move in and out</li> </ul>
Nucleolus	- Makes the ribosomes
Mitoch- ondria	<ul> <li>Where respiration takes place</li> <li>Releases energy</li> <li>Cristae (fold) used in aerobic respiration and ATP is produced</li> </ul>
Vesicles	<ul> <li>Membranous sacs that stores and transports</li> <li>Single membrane with fluid inside</li> </ul>

## By Alina

cheatography.com/alina/

Not published yet. Last updated 5th July, 2018. Page 1 of 1. Sponsored by Readable.com Measure your website readability! https://readable.com