A Level Biology Introductory Work:

Cellular Structures Task

Produce a large hand drawn & labelled diagrams of:

a virus, a bacterium & a plant cell (an example of a eukaryotic cell).

Diagrams need to be neat, accurate and have the structures drawn & labelled that are listed below. Complete diagrams on plain paper.

Use labels to identify the following structures found in each:

Virus Particle	**Bacterial Cell**	**Plant Cell (Eukaryote)**
Genetic material	Cell Wall	Cell wall
Capsid	Cell Membrane	Cell membrane
Lipoprotein coat	ribosomes	nucleus
	plasmids	ribosomes
	flagella	RER
	cytoplasm	Golgi body
	DNA/nucleoid	cytoplasm
	slime capsule	vacuole
	mesosomes	mitochondria
	pili	vesicles

Functions of Cellular Structures

Explain the functions of the organelles and structures in side each of the cells and the virus particle. This can be done as a list for each microbe or as tables or as annotations to the diagrams.

You will need to research these using the resources listed.

Virus Particle	**Function**
Genetic material	
Capsid	
Lipoprotein coat	

Bacterial Cell	**Function**
Cell Wall	
Cell Membrane	
ribosomes	
plasmids	
flagella	
cytoplasm	
DNA/nucleoid	
slime capsule	
mesosomes	
pili	

Plant Cell (Eukaryote)	**Function**
Cell wall	
Cell membrane	
nucleus	
ribosomes	
RER	
Golgi body	
cytoplasm	
vacuole	
mitochondria	
vesicles	

Useful resources:

https://www.bbc.com/bitesize/guides/zyhrng8/revision/2

https://www.youtube.com/watch?v=CqIux4fqrEw

https://alevelbiology.co.uk/notes/an-introduction-to-cells/

https://www.youtube.com/watch?v=Ld-o5mZ3Rok

http://www.a-levelnotes.co.uk/biology-aqa-as-notes-cells-structure-of-prokaryotic-cells-and-viruses.html