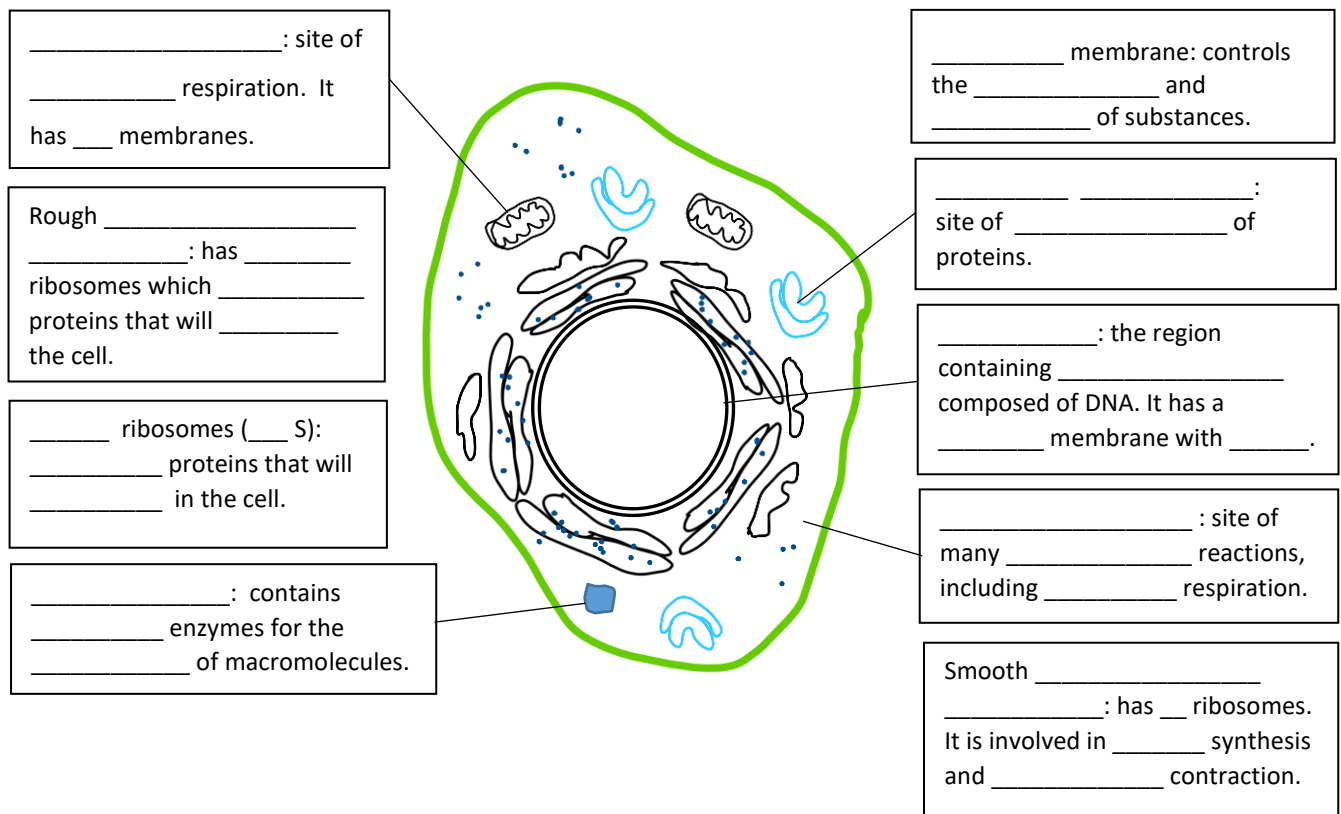


A 2.2 Eukaryotic Cells

- Eukaryotic cells have internal _____ resulting in _____ and their DNA is enclosed in a _____. Also, the DNA in a eukaryote is bound to _____ proteins. Recall that in a prokaryote, this is not the case, so it is called _____ DNA.
- Below is a rough representation of a pancreatic _____ cell. Add any missing **straight lines** to the correct structures and then complete the labels and annotations. Circle the imperfections in the diagram.



- Missing from the schematic is the cytoskeleton. It is made of _____ and _____. It has many functions, including supporting cell division: _____ which is cell division to grow and replace cells, and _____, which is to produce gametes.
- _____ cells are also eukaryotic. They have three additional structures: the _____, which helps give structural support as it is made of _____, and _____ which are needed for _____ as these organisms are **autotrophs**. There is also a large _____, which contains the cell sap. The cell you should be able to draw from this type of organism is called a _____ cell.
- _____ cells are also eukaryotic. Their cell _____ are composed of _____.
- Exercise: If the actual size of this cell is 15 μm , work out the magnification of the diagram.