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| **What will we be learning?****Cells** | **Why this? Why now?**Previous Learning Human body systems KS2Future Learning GCSE – **Cell Biology**: eukaryotic and prokaryotic cell structure, cell division, cell transport. **Organisation:** principles of organisationEnquiry ProcessesDraw conclusions, present data in the form of biological drawings, use microscopes and understand scale and magnification. | **Key Words:**CellUni-cellularMulti-cellularTissueOrganOrgan SystemOrganismDiffusionCell membraneNucleusVacuoleMitochondriaCell wallChloroplastCytoplasm Adaptation |
| **What will we learn?*** Multicellular organisms are composed of cells which are organised into tissues, organs and systems to carry out life processes.
* There are many types of cell. Each has a different structure or feature so it can do a specific job.
* How to use a light microscope to observe and draw cells.
* Uni-cellular organisms are adapted to carry out functions that in multi-cellular organisms are done by different types of cell.

**Misconceptions in this topic*** Not all plant and animal cells have the same shape- nerve cells and sperm cells are a good example of this.
* A uni-cellular organism is a single-celled organism thar carries out all the life processes- they are alive.
* When living things grow their cells do not get bigger- they make more cells.
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| **What opportunities are there for wider study?**CareersDoctor Nurse Biomedical Scientist Microbiologist STE(A)M https://highcliffe.sharepoint.com/sites/LearnSTEM |
| **How will I be assessed?**End of topic assessment |