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| **What will we be learning?**  **Cells** | **Why this? Why now?**  Previous Learning  Human body systems KS2  Future Learning  GCSE – **Cell Biology**: eukaryotic and prokaryotic cell structure, cell division, cell transport. **Organisation:** principles of organisation  Enquiry Processes  Draw conclusions, present data in the form of biological drawings, use microscopes and understand scale and magnification. | **Key Words:**  Cell  Uni-cellular  Multi-cellular  Tissue  Organ  Organ System  Organism  Diffusion  Cell membrane  Nucleus  Vacuole  Mitochondria  Cell wall  Chloroplast  Cytoplasm  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. | |
| **What opportunities are there for wider study?**  Careers  Doctor Nurse Biomedical Scientist Microbiologist  STE(A)M  https://highcliffe.sharepoint.com/sites/LearnSTEM | |
| **How will I be assessed?**  End of topic assessment | |