**Guide to Your Unit 3 (Cells) Review**

|  |  |
| --- | --- |
| **Topic / Lesson** | **Key Terms and Concepts** |
| Cell Theory | 3 parts of cell theorySpontaneous generation & how disproved |
| Cell Membrane | Structure & Function |
| Passive Transport | What makes it passive?DiffusionConcentration GradientOsmosis (incl. hypertonic, isotonic, hypertonic)How to predict water movement?Facilitated diffusion |
| Active Transport | Differences from passive (3)Exo/Endocytosis (phago/pinocytosis)Na+/K+ Pump. (direction and #s of each) |
| Nucleus | Structure & Function |
| ER + Golgi | RER Structure & FunctionRibosome structure & FunctionSER Structure & FunctionGolgi Structure and Function |
| Chloroplasts & Mitochondria | Endosymbiosis & evidence for theoryChloroplast Structure & FunctionMitochondria Structure & Function |
| Lysosomes | Structure & Function |
| Classification & 3 domain system | Scientific names & DKPCOFGS:3 domains – which are prokaryotic / eukaryotic? |
| Cytoskeleton & Movement | MicrotubulesCiliaFlagellaPseudopodiaCentrosome / centrioles |
| Types of Cells | Cell walls! Prokaryotes v. plants v. fungiPlant structures / functionsWhat all cells have in common |
| Stem Cells | Pluripotent vs. differentiated cellsDifferentiationStem cell (2 abilities) |
| Multicellular Organization | Cells🡪tissue🡪organs🡪organ systems🡪organismsColonial organism |