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

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| **Topic / Lesson** | **Key Terms and Concepts** |
| Cell Theory | 3 parts of cell theory  Spontaneous generation & how disproved |
| Cell Membrane | Structure & Function |
| Passive Transport | What makes it passive?  Diffusion  Concentration Gradient  Osmosis (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 & Function  Ribosome structure & Function  SER Structure & Function  Golgi Structure and Function |
| Chloroplasts & Mitochondria | Endosymbiosis & evidence for theory  Chloroplast Structure & Function  Mitochondria Structure & Function |
| Lysosomes | Structure & Function |
| Classification & 3 domain system | Scientific names & DKPCOFGS:  3 domains – which are prokaryotic / eukaryotic? |
| Cytoskeleton & Movement | Microtubules  Cilia  Flagella  Pseudopodia  Centrosome / centrioles |
| Types of Cells | Cell walls! Prokaryotes v. plants v. fungi  Plant structures / functions  What all cells have in common |
| Stem Cells | Pluripotent vs. differentiated cells  Differentiation  Stem cell (2 abilities) |
| Multicellular Organization | Cells🡪tissue🡪organs🡪organ systems🡪organisms  Colonial organism |