**Lesson 11: Kingdom Protista**

**Learning Target**: #7. I can compare and contrast the structure and function of different types of eukaryotes from Kingdoms Protists, Fungi, Plants and Animals

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Protists** | | | | | |
| ***What are they?*** Eukaryotic microbes ***Examples***: Algae, Paramecium, etc | | | | | |
| **Key Points** · Mostly unicellular, some multi-cellular  · Reproduce asexually (via binary fission), some sexual exchange of DNA  · Live in most surroundings of fresh and salt water, animal fluids, damp areas)  · Great ecological diversity (115 000 species)  · Can be called the miscellaneous group | | | **General Characteristics of Cell** (Shape, size, structure, etc)  · Eukaryotic  · Have nucleus, vacuoles, mitochondria  · Small but can see under light microscope    · Locomotion   * Euglena – use flagellum * Paramecium – use cilia | | |
| ***Characteristic*** | ***Plant-like Protists*** | ***Animal-like Protists*** | | | ***Fungi-like Protists*** |
| Why are they in this group? | Can make own food, since they have chloroplasts (to carry out photosynthesis) | Cannot make own food  Must move to obtain food  Have the ability to ingest food (endocytosis) | | | Cannot make own food because they are heterotrophic or decomposers (ingest food – endocytosis)  Include: slime moulds  Leave a slime trail |
| Reproduction | Asexual and sexual  Binary fission (most common)  Conjugation  Fragmentation | Binary fission | | | Sometimes uses spores |
|  | ***Plant-like Protists*** | ***Animal-like Protists*** | | | ***Fungi-like Protists*** |
| Where do they live? | Wet/moist environments (ponds)  Wet land areas | Water  Animal body fluids (parasitic) | | | Cool, shady moist places (like under logs and fallen leaves) |
| Examples | Algae, euglena | Amoeba, Paramecium | | | Plasmodia |
| · ***Other*** | | | | ***Algae's Role in the Ecosystem:***    Algae   * Primary food in aquatic food chains * Supply 2/3 of world's oxygen * Used to make agar (used in medical facilities) | |
| ***Lesson Review:***     * Read 2.3 (pg 60-67) * Pg 67 Questions #1, 4, 5 * 2 colouring sheets | | | | | |