<u>Class Notes</u>	Name:
Kingdom Protista	Period:
Main Idea:	Date: Notes:
What is a protist?	Kingdom Protista is a dumping ground for organisms that don't fit
	into any other Eukarya kingdoms
	 Eukaryotes
	 Lots of different life styles
	 Live in most environments
	• Categorized by how they get their nutrition (e.g., autotroph,
	heterotroph)
Autotrophic Protists	• Algae (singular: alga)
	Photosynthetic
	 Produce most of the oxygen in the atmosphere!
	No roots, stems, or leaves
	• 4 phyla:
	• Euglenaphytes (no cell wall; can be heterotroph in low light)
	 Diatoms (patterned silica shells)
	 Dinoflagellates (cause of red tides and bioluminescence; some
	are heterotrophs)
	 Red, Brown, Green algae
	 Green algae were <u>likely ancestral plants</u>
Fungus-like Heterotrophic Protists	Saprotrophs (feed on dead organisms or live as plant parasites)
	• Unlike fungi, they can move!
	• 3 phyla:
	• Cellular Slime Molds
	 Plasmodium Slime Molds (the runny looking ones)
	 o Water Molds
Animal like Hatanatuanhia	
Animal-like Heterotrophic Protists	• <i>Proto</i> = first; <i>zoa</i> = animal (singular: Protozoan, plural: protozoa)
	• Unicellular
	Heterotrophs
	• 4 phyla (mostly grouped based on method of movement)
	o Ciliates
	o Flagellates
	o Amoeboids
	 Sporozoans

 Animal-like Heterotrophic Protists Ciliates and flagellates 	 Ciliates Use cilia for movement Not parasitic
	 Example: Paramecium Flagellates Use flagella for movement Some parasitic, e.g., Trypanosoma (African sleeping sickness) Giardia lamblia
Animal-like Heterotrophic Protists	 Some mutualistic, e.g., <i>Trichonympha</i> (help termites digest wood) Move via pseudopod ("false foot")
Amoeboids	 <u>Pseudopods</u>: Cytoplasm-filled projections Engulfs food by flowing around it Examples
	 Examples <i>Entamueba histolytica</i> (amoebic dysentery) Foraminifera (CaCO₃ shell) <i>Amoeba</i>
Animal-like Heterotrophic Protists	SporozoansParasitic; live inside a host
> Sporozoans	 Cannot move on their own Examples: <i>Plasmodium falciparum</i> (malaria), <i>Toxoplasma gondii</i> (toxoplasmosis)
What is malaria?	 Caused by <i>Plasmodium falciparum</i>, passed from human to human by infected mosquitoes Parasites travels through bloodstream to liver, where they mature and enter the bloodstream and infect red blood cells Parasites multiply inside the red blood cells, which then break open within 48 to 72 hours, infecting more red blood cells. Symptoms – anemia, headache, jaundice, muscle pain, nausea, sweating, vomiting, bloody stools, chills, coma, convulsion, fever About 2 million cases per year, about 1 million deaths (mostly children); 91% in Africa
Summary:	