Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Protista and Fungus**

**Protista**: the hodgepodge group

* Originally a kingdom of the miscellaneous organisms that didn’t exactly fit in the other groups
* Has been split into numerous separate kingdoms although there is wide disagreement on how they should be classified

Common Characteristics:

**General Classifications**:  
1)  like protists =   
2)  like protists =   
3)  like protists =

**Animal Like Protists:**- unicellular  
- heterotrophic

Groups:  
 : move using numerous  structures called   
 -   
 -Trychonympha – guts of  – mutualism   
  
 : move using numerous  structures called  **\_\_\_\_\_\_\_\_\_\_\_\_**  
 -  **-**   
 -  – cause   
 -  – Causes   
 -  – **“ ”**

: move using extensions of the cell membrane and cytoplasm called  that are also used to surround and engulf food by   
 -   
 - can cause disease –

:    
 -  – causes

**Plant Like Protists**:  
- unicellular and multicellular  
- photosynthetic

: cell walls made of  – glass like – complex shapes  
- unicellular -   
- very abundant in    
- many layers can form  – used in   
  
**Algae**:   
3 Types: Classified based on the major photosynthetic pigment color  
1)  – manly red in color – although it can appear green or black  
 Ex:  – food stabilizer   
 – food stabilizer and microbiology  
  – edible seaweed used to wrap sushi

2)  – largest of all algae  
 Ex:  – food for many organisms  
 - creates a  which supports many organisms  
 - : food stabilizer

3)  – debate over classification – protists or plants  
 Ex:  - pond scum  
  – used as food  
  – nutritional supplement  
  – mutualism with fungus

**Fungus Like Protists**: slime molds and water molds  
- multicellular –   
-    
- many feed on **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**- cell walls made of   
Cause many diseases:   
 -  in fish

**Kingdom Fungi**:  
- unicellular and multicellular  
- decomposers  
- cell walls made of  –   
-reproduce using   
- excrete  outside of their cells to digest their food and then  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  
  
Examples:  
 -  – bread making  
 -  – mushrooms  
 - Mushroom is actually the  while the  of the fungus  breaking down dead material and growing into a

-  – bread mold

-  – mutualism between  – important for

-  – symbiosis between  – the fungus increases the  of the plant roots allowing them to  while the plant provide the fungus with

**Other Roles of Fungus:**- : huge impact on crops – corn smut and wheat rust  
 - attack animals: Cordyceps, athlete’s foot fungus, ring “worm”