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”