## Do Now

How many average size deer ticks do you think it would take to equal your height? What about other objects?

> Average size of deer tick = 3mm (about 0.10 inches)

### Measuring Tree Rings

### Which tree ring came from which island? How do you know?





### Abiotic

#### The amount of Sunshine, rain or nutrients in the soil may affect growth



### Biotic

The number of herbivores (like deer or herbivorous insects like moth larvae) eating a tree's leaves may affect the growth of the trees



### The Rotting Log

What types of organisms do you think you can you see at different magnifications of the Rotting Log?



### The Rotting Log - Ox



The Rotting Log - 10x



The Rotting Log - 200x



#### How Do Tree Trunks Change Over Time?

Trees trunks have cellulose - a tough, fibrous compound that gives trees and plants their strong trunks and stems. It creates structure to their cell walls. This material is difficult to break down. Only certain organisms, like termites, are able to digest cellulose. But, they are only able to do so because they have symbiotic protists in their gut that help in digesting cellulose! Change can happen at different speeds (rates)!



#### Change Over Time in the Forest

What are other examples of different time scales in the forest?

Are there examples of organisms growing at different rates?



# Goals for Today

- Complete your Scientist Roles Perspective Sheet
  Create a food web from the perspective of your role including
  - biotic and abiotic factors.