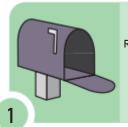
## Sample Collection

# Experimentation



### **Prepare**

Request and receive your kit in the mail or in person! A good scientist looks at all their materials before experimenting



### **Prepare**

Locate the Kolling Lab Tardigrade sample in your kit. If you don't plan on experimenting right away, store in the refrigerator for up to 2 weeks.



### Collect

Go to your backyard and gather some moss into one of the Collection Tubes using a coffee stirrer.



### **Observe**

Use a pipette to mix up the sample and place a small amount on a microscope slide. Try to find a tardigrade.



# Identify

Mix a little bit of water with your sample. Using the pipette, put a few drops on a microscope slide and use the provided scope to look for tardigrades!

Return

Use the pipette to carefully

place any tardigrades in the

Return Sample Tube and

sent it back to use in the

prelabeled mailer.



## **Experiment**

With parental supervision:

Once you find some tardigrades, try adding small amounts of household chemicals to them using the pipettes.

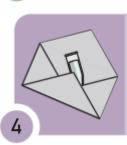
> Recommended Experiments:

- Salt water
- Hydrogen peroxide
- Sugar water



### Document

A good scientist shares their results with the world! Post your results on the forum on our website to share your awesome science!



### **Document**

At Marshall University, real chemists will work to identify your tardigrades! Include your name and email with your sample so we can update you on your data!



# Tardigrade Reference Guide



### Healthy Tardigrade

This is a happy healthy tardigrade! Its limbs are moving and there may be some food in its tummy!



We call this curled up ball of a tardigrade a tun. This is how tardigrades deal with stress!





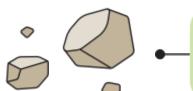
### **Dead Tardigrade**

Typically, dead tardigrades will look stiff. This is a sign your bear didn't survive experimentation.

### Cuticle with Eggs

Tardigrades shed their cuticle (like snakes shed their skin) and leave behind baby bear eggs inside! The cuticle is normally clear.





### *Not* a Tardigrade

Look closely! You may collect a sample that does not have bears. It's easy to think debris is a tun!

If you need additional help with your tardigrade wrangling, visit our website where you can find additional information and ask us questions: mupagesmarshalledusiteskollinglaboratory.wordpress.com Happy tardigrade hunting!