3.2b Research Hester-Dendys Worksheet

Name: _____

We want to design a sampler that will best mimic our stream habitat. One way scientists obtain data that is **quantitative** (data that is numerical and can be replicated identically at different locations) is to use Hester Dendy samplers. Today, our challenge is to design a Hester Dendy sampler that will be better at collecting macroinvertebrates in your stream than the standard Hester Dendy design. **You will want your Hester Dendy to collect more types of macroinvertebrates and a greater overall number of macroinvertebrates than the standard Hester Dendy sampler.**

Use the resources your teacher has available and/or the Internet to research what a Hester Dendy sampler is and how it is used. Below, draw and label an image of a standard Hester Dendy, identifying the different parts:

Summing Up

1. How do Hester Dendy's collect macroinvertebrates?

2. What part(s) of a stream habitat do Hester Dendys mimic?

3. What part(s) of a stream habitat are missing from the current Hester Dendy design?

4. What are some limitations to using Hester Dendys?

5. What features on the Hester Dendy could we alter?