**Waste Water Challenge**

Your group is challenged with building a filter that will clean 250 mL of dirty water (oil, food coloring, soil, and whatever else I decide to put in ☺). Here are the perimeters for the challenge:

* Must work by gravity – you will pour the water in then stand back and it needs do everything on its own.
* You must build it, no store bought ones.
* I have some supplies you can use such as the supplies from the soil labs (sand, clay, humus, cheese cloth), some 2L bottles and 1 gallon jugs (not a huge amount of them). You can text me and ask if I have other specific materials.
* Feel free to bring in materials on Monday.
* Must work during class (meaning it cannot be super slow) and we must have at least 50 mL of clean water to compare with others

Before you leave today, you group needs a solid plan. What materials do you need, how many/much of each thing, who is bringing in something, etc. You can research using your phones or we have laptops 1-15.

Thursday you will build. You are not allowed to test it. It will be left here in class awaiting the challenge.

Friday you can tweak it if necessary then we will run them. On Friday you will answer a few questions about your design and results and submit that as your last lab grade.