

Earthwork Lesson - Supply List

Shop Exercise – Supply List w/pictures: PDF Document 8.1c – Pictures and list of supplies needed for exercise.

Gravel Pit/Dump Sites: Rubbermaid containers or equivalent (need to be sturdy), all must be the same in size. Make sure to measure the exact volume if the size is not given. For this exercise we used 1.5 gallon containers, purchased from Walmart. **8 ea**

Excavators: Set of measuring spoons, you will use the 1 Tbsp. for the exercise but recommend having a variety to allow students to think about how size would affect the outcomes. Faberware professional set of 7 measuring spoons, purchased from Walmart. **4 ea**

Dump Trucks: Containers that are much smaller than the gravel pits or dump sites. Use Equate soap holder, purchased from Walmart. Make sure that you can measure the exact volume and calculate in the exercise. Example is attached to the instructions. **16 ea**

Compactor: Burger Press, purchased at Walmart. **2 ea**

Material:

Flour – 5 lb bags – 4 ea

Sugar – 4 lb bags – 6 ea

Peanut M&M's – family size – 1 ea

Regular M&M's - family size – 1 ea

Mini M&M's – large size – 1 ea

Candy - large size – for each student 32 ea (optional)

Optional: Larger Container to hold all of supplies. **1 ea**

Directions:

Flour: Pour 2 ea 5 lb bags into one of the 1.5 gal containers. The material will be moderately compacted but should fit. The object is when the students excavate the material, it has the potential to “loosen or swell” and the potential for “compaction”.

Sugar and M&M's: Pour 3 ea 4 lb bags into one of the 1.5 gal containers, mixing in a generous amount of M&M's to create a finely graded gravel mixture. The material will be moderately compacted but should fit. The object is when the students excavate the material, it has the potential to “loosen or swell” and the potential for “compaction”.