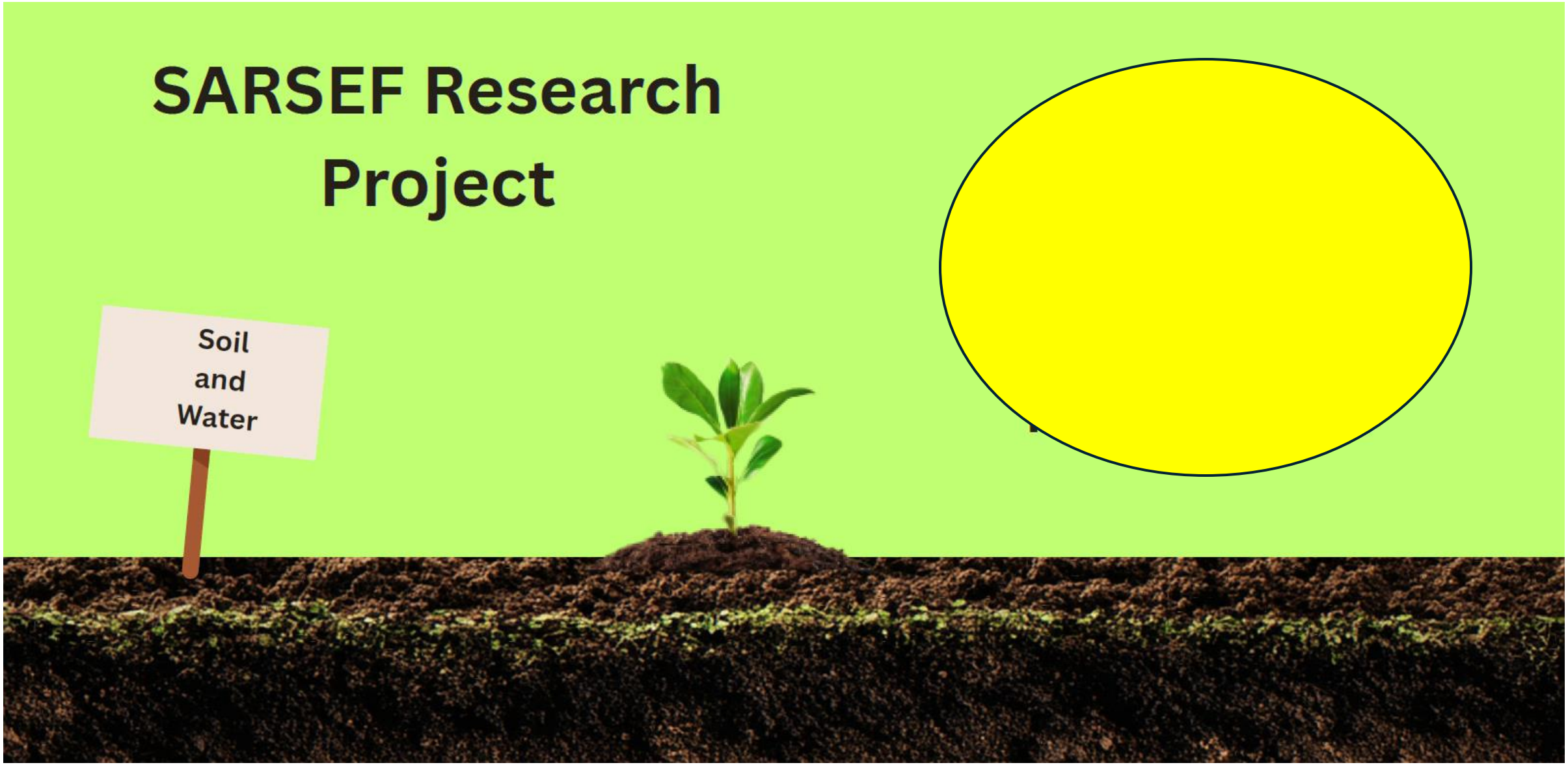
SARSEF Research Project

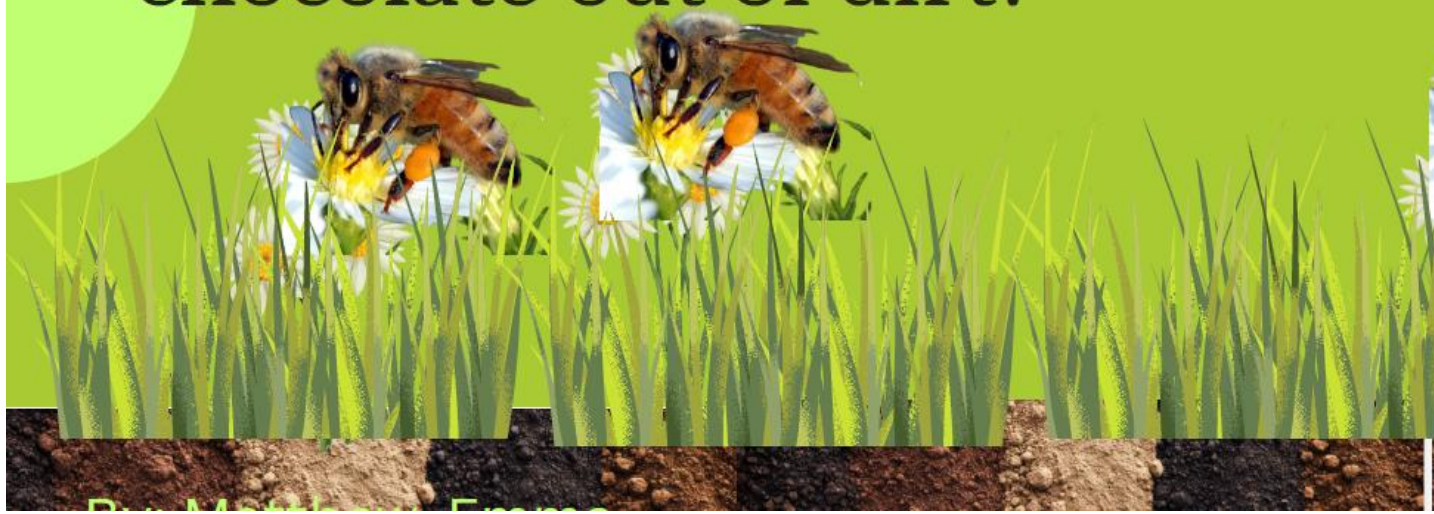


Introduction

- We wanted to do this because we wanted to see how soil mixes with water.
- We know that soil has different types such as grainy, sticky, and sometimes soft.
- The soil reminded us of dubai chocolate so we wanted to build dubai chocolate with the ingredients because it was famous and we were interested.

Research Question

- How do different types of soil interact with water?
- Which mixture works best to make dubai chocolate out of dirt?



Methods and Procedure

Step 1: Get your ingredients: finished compost, silt, sand and water

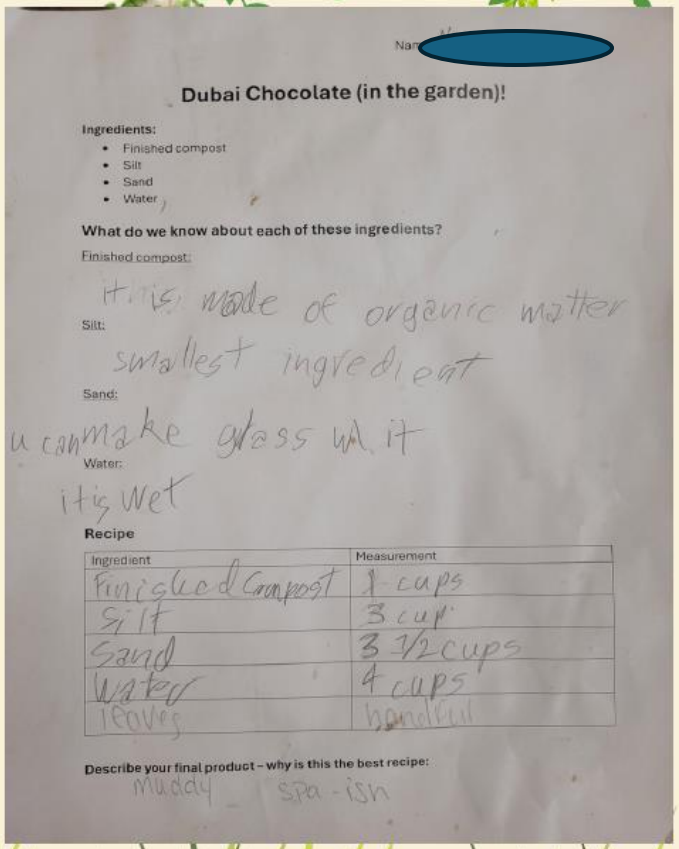
Step 2: Add 3 cups of water to the sand, silt, and finished compost

Step 3: Mix the water with the sand silt or finished compost

Step 4: Write down your observations

Step 5: Decorate the mixtures with flowers and shape it like dubai chocolate

Data Collection



Name [redacted]

Dubai Chocolate (in the garden)!

Ingredients:

- Finished compost
- Silt
- Sand
- Water

What do we know about each of these ingredients?

Finished compost:

it is made of organic matter

Silt:

smallest ingredient

Sand:

u can make glass w/ it

Water:

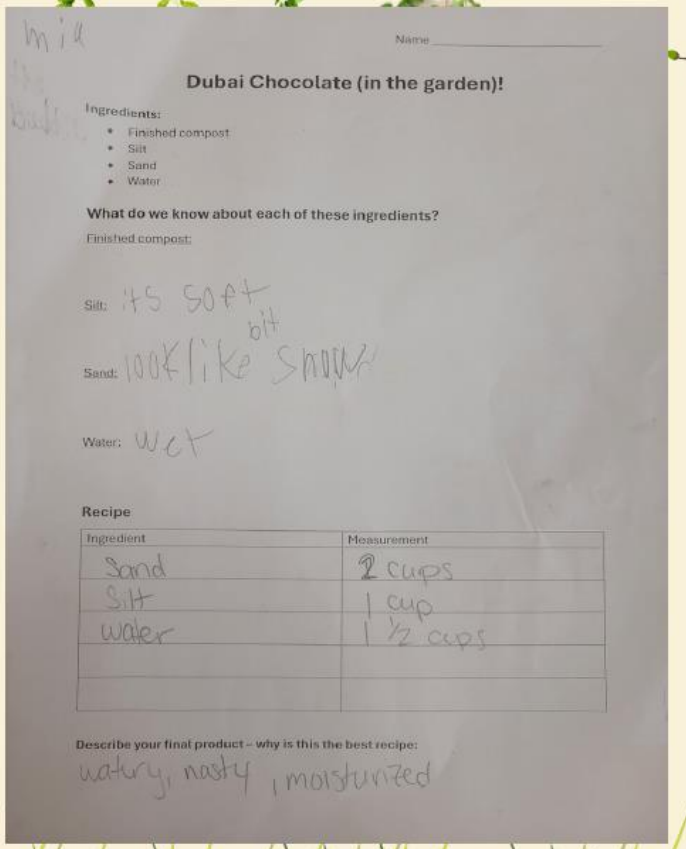
it is wet

Recipe

Ingredient	Measurement
Finished Compost	1 cups
Silt	3 cup
Sand	3 1/2 cups
Water	4 cups
leaves	handful

Describe your final product – why is this the best recipe:

muddy spa-ish



Name _____

Dubai Chocolate (in the garden)!

Ingredients:

- Finished compost
- Silt
- Sand
- Water

What do we know about each of these ingredients?

Finished compost:

Silt: it's soft a bit

Sand: look like snow

Water: wet

Recipe

Ingredient	Measurement
Sand	2 cups
Silt	1 cup
water	1 ½ cups

Describe your final product – why is this the best recipe:

watery, nasty, moisturized

RESULTS

- Silt was the best because it stayed in shape and didn't break when you held it and it was the softest thing ever.
- The sand would break if you hold it, when sand dries out it's gonna break.
- Compost has alot of liltle pieces of wood chips and other things. If you put too much water on soil its gonna make mud and a mess, you wont be able to shape it.

Discussion and Interpretation

- We learned about soil and what type of dirt makes good soil when mixed with water.
- We found that silt was the best because it was soft and absorbs the water well. This is great for planting and making garden dubai chocolate.
- Next time we would like to try different soils and test less amounts of water.

Implications for Ideas and Future Research

- *This means that silt will make a good soil if you want to plant something or make models out of dirt.*

- *We would be interested in how plants and water would interact if we mixed all types of soil (silt, compost, and sand).*

Refernces

- Richardson, Adele (2002) *Soil*
  Capstone Press
- Tomecek, Steve (2002) *Dirt* (N. Woodman Illus.)
  National Geographic