Purpose (Learning Target)

Students will be able to perdict the outcome of seperating mixtures.

## Hypothesis:

1. What do you think will happen to the mixture after you shake the contents and allow them to settle? Think the denser materials

will settle first near the bottom in the order of gravel, sand, clay, red dirt, and perlite, Materials:

- 1. Five soils; s, (red dirt, gravel, pertilite, sand, loma clay)
- 2. 3 pints of water
- 3. jar with lid.

Etc.

## Procedure:

- 1. Observe characteristics rand make perdictions.
- 2. Place 5 soils in jar, add water and shake vigorously after sealed.
- 3. After 15 minutes evaluate and compare data results.

Data/Results/Observations: Copy blank table found in lab paper

Perdicted Order, Actual Order
Gravel Gravel
Sand Clay
Clay red dirt
Bed Dirt sand
Perlite Perlite

perlite-feit like dippin dots

Small soft foam

Sand-soft smooth

loma clay-clampy crumbs of

red dirt-thick, settle, sticky

The results in this lab reminded me of peaches.

and cream. After you pour whipped cream.

and peach juice together the juice and whipped cream seperate from each other.

Total

4

Yom!

## Conclusion (Required)

- 1. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
- Topic Sentence 2. Restate the purpose / question/ problem.
- Tritroduction3. Tell whether you accept or reject the hypothesis based on the results from this experiment.
  - 4. What did you learn in this lab?
  - 5. Now I wonder? (What are possible further experiments or questions that you could ask based on this experiment?)

In this experiment I predicted the outcome of seperating mixtures. My hypothesis was half way correct. I accept that denser materials settle first however, my order was different then the end result. If I had a scale I could have accurately measured the material density better. From this lab I learned that materials with more density sink faster because of gravity causing it to settle. After seeing the results of this experiment I now wonder if denser liquids would effect the way the materials settle.