

Conclusion (Required)

1. Conclusions must be written in paragraph form. Do not number or bullet a conclusion.
2. Restate the purpose / question/ problem.
3. 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?)



The objective of the "Separating Mixtures" lab was to observe and predict the order of settling in a mixture. I would reject my hypothesis, that if we put equal amounts of clay, soil, gravel, sand, perlite and water in a mason jar and shake it, then the materials would form the following layers from top to bottom: perlite, water, gravel, sand, soil, and lastly clay. I based my hypothesis on the knowledge that perlite was a lot like foam, clay was heavy, and soil & sand have almost the same in density. Yet, the actual order went: Perlite, water, soil, sand & gravel & clay mixed together.

In the separating mixtures LAB, I learned that in such a mixture, the density has a lot to do with the order of the layers. Clay & Gravel are the densest, & the perlite is the least dense thing in the mixture. If I could re-do this experiment, I would think more about the density of each material before I wrote the predicted order. Now I wonder if I changed the amount of materials, would the order of layers change?

materials in the mixture, then would the layers settle to bottom in a different order?

Nice work!