Foam Dough Lesson Plan

Amount of time Demo takes: 3 mins.
Try this at home!

Materials
- 16 oz boxes of cornstarch (2)
- Bottles of shaving cream (3)
- Food coloring (optional)
- Water
- Paper towels
- Bins to mix starch and shaving cream in (2)
- Optional: Cookie cutters or play dough molds

Set-up Instructions
1. Try and have this placed near oobleck, clean up will be much easier.
2. Pour 16 oz of cornstarch into each bin.
3. Add equal amount of shaving cream on top of cornstarch.
4. Add 8-10 drops to add color.
5. Mix with your hands adding shaving cream as needed to get desired consistency.

SAFETY!
- DO NOT EAT!

Lesson’s Big Idea
- Mixing the shaving cream with the cornstarch creates a moldable solid.
- Corn starch is a thickener.

Background Information
- Non-Newtonian fluids are solutions whose density changes under certain conditions. When force is applied, the density of the dough increases so much, it acts like a solid.

Instructional Procedure
1. Have students play around with the dough.
2. Try mixing colors of dough.
Assessment/Sample questions you can ask
● What would happen if this is left over night?
● What would happen if you added more shaving cream? Cornstarch?

Clean Up
● Throw away all remainders of the dough.
● Rise out and DRY OFF bins.

References
● http://earlylearning.momtrusted.com/2013/05/foam-dough-shaving-cream-corn-starch/
● http://www.icanteachmychild.com/2013/05/shaving-cream-cornstarch-fun/

Next Generation Science Standards
● K-5
  ○ 2-PS1-2
  ○ 5-PS1-3
● 9-12
  ○ HS-PS2-6