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Open

Oobleck

States of Matter

Goal: A hands-on way to introduce students to the different states of matter.

Objectives:

- Students will be able to identify two states of matter (solid and liquid).
- Students will be using measuring tools to complete a recipe.
- Students will use reading and writing to heighten their awareness of the states of matter.

Materials:

- Large mixing containers (1 per three students)
- Small containers with lids so students can take home Oobleck
- Cornstarch
- Foodcoloring
- Science journal
- Bartholomew and the Oobleck by Dr. Seuss
- Measuring cups

Grade: 1-3

Time: 45 minutes-1 hour

Procedure:

1. Read Bartholomew and the Oobleck by Dr. Seuss and discuss the strange properties of Oobleck.
2. Split students into teams of three and give them the utensils that they will need to make oobleck (measuring cups, large mixing bowl, smaller containers, food coloring, and cornstarch).
3. Make Oobleck:
 - Four parts cornstarch
 - 1 part water
 - food coloring
 - mix with hands
4. Have students play with Oobleck for a time being trying to note the different states of matter that Oobleck exhibits.
5. Have students split the Oobleck and put into containers to take home.

Assessment:

- Have students write in their science journals or share their experiences with Oobleck.

Content Standards

AZ: **SC** SSC1; **MA** S4C4; **LA** R-S3C1
 CO: **SC** #1, 2.1, 2.2, 2.3; **MA** #5; **LA** R/W #1,4
 NM: **SC** (1) II 1.1; (2) II 1.2; **MA** (K-4)4E1; 9A2
 UT: **SC** (5) Std 1, Obj 1; (7) Std 1, Obj 2

DO NOW: Draw or write at least 4 objects that are solid, liquid or gas.



Oobleck is made by combining:

Which is a: (solid, liquid or gas)

a. Borax a. solid

b. Elmer's Glue b. liquid

c. Food coloring c. liquid

d. Water d. liquid

I ended up with a colloidal suspension

Element - any substance that can not be broken up into simpler substances by chemical means
Compound - a substance formed when atoms of two or more elements join together
Mixture - a material consisting of two or more substances that are not chemically bound to each other and can be separated

Do you think Oobleck is an element, compound or mixture? mixture

NAME THAT SUBSTANCE!!

Directions: Define the following as either an element, compound or mixture.

nitrogen	element
salad dressing	mixture
salt water	mixture
oxygen	element
water	compound
sugar	compound
chalk	compound
air	mixture

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