

**Project FOCUS
Best Lessons
SECOND GRADE**

Title of Lesson: Matter in Mixtures

Theme: Physical Science

Unit Number: 1 **Unit Title:** Properties of Matter

Performance Standard(s) Covered (enter codes):

S2P1

S2CS5

Enduring Standards (objectives of activity):

Habits of Mind

- Asks questions
- Uses numbers to quantify
- Works in a group
- Uses tools to measure and view
- Looks at how parts of things are needed
- Describes and compares using physical attributes
- Observes using senses
- Draws and describes observations

Content (key terms and topics covered):

Matter, Mixtures

Learning Activity (Description in Steps)

Abstract (limit 100 characters): Students explore the component and properties of a mixture.

Details:

Background Information:

At the beginning of the semester, my class was working on understand matter. They were having no problem understanding the states of matter, but they were having a hard time grasping the concept of matter still retaining its integrity in a mixture. My teacher and I discussed it, and decided using food would be a good way for the students to actively participate in understanding how to describe matter, by being able to look, smell, taste, and feel the different foods, and also to see that even though they have a mixture, they can still pull out different parts.

Preparation/Procedure:

I found splitting the students into small groups made keeping everything in order easier. Buy all the food and put it on the tray's (enough for each student to each get a piece of everything) before class, that way where you come into class all you have to do is put each tray in front of each group. Also, prepare a Smartboard page that looks like

this:

Characteristics of Matter:

Food item:

Look:

Feel:

Smell:

Taste:

I described one item at a time, without saying what it was, ex. "Pick up something that looks like a tree." The students would then pick up the food item and put it on their plate. Going through each characteristic, the students would have a chance to look at, touch, smell, and taste each food item. The students would use their best descriptive words to describe each food item and I would write them on the Smartboard, filling in the chart. When they get to taste you have the students break whatever food object they have into four pieces and eat only one piece, and set the other three pieces aside. When you are done with all the food, have the student mix up all the food, and show them how ever though it is a mixture you can still separate the different parts.

Questions:

What is matter?

What are the properties of matter?

What is a mixture?

Can you separate a mixture?

Is fruit salad a mixture?

Evaluation:

It is easy to evaluate the students because they are participating as you go. Make sure in the end to ask them the questions about mixtures to see if they understand what they just did and were not just paying attention to the food.

Materials Needed (Type and Quantity):

- One big tray for each group to hold the food**
- Bag of bugles**
- Bag of twizzlers**
- Bag of cheese puffs**
- Bag of marshmallows**
- Bag of pretzels**
- Bag of gummy lifesavers**

Smartboard

Notes and Tips (suggested changes, alternative methods, cautions):

Tips:

To keep the classroom from getting too out of hand, stress the classroom rules like “raise your hand before you speak,” also, tell them if they are not cooperating they cannot have anymore treats! Make sure to call on all the students and not the same ones every time.

Safety Issues:

You can really use any foods; just make sure the students do not have any allergies

Sources/References:

- 1)**
- 2)**
- 3)**