

LMSA Activity -Lesson Plan Template

Teacher Name: Garick

Subject:
Math, Science, &
Visual Arts

Grade: 4K

Week of: November 9th - November 13th

College and Career Readiness Standards:

Math

M.OA.PK4.1- With guidance and support, experiment with adding and subtracting by using developmentally appropriate preK materials

M.OA.PK4.2 – With guidance and support, model real world addition and subtraction problems up to 5

M.OA.PK4.3 - With guidance and support, decompose numbers less than or equal to 10 in more than one way using developmentally appropriate preK materials

M.CC.PK4.3 With prompting and support, recognize, name, and experiment with writing numerals 0 -20

M.CC.PK4.b - Match quantities and numerals 0-10

Visual Art

VA: Cr.1.2.PK– Engage in self-directed creative making

VA:Cr.2a.1.PK– Use art-making tools

VA.RE7.2.PK Distinguish between images and real objects

VA.CN11a.1.PK Recognize that people make art.

Essential Questions

How can I SHOW subtraction?

How do I create a subtraction sentence with numbers 0 -10?

How can I solve subtraction word problems within 10?

I Can Statements

I can SHOW subtraction by using visual representations *ART* (drawings, images, etc) to explain the concept of “taking apart - separating” when solving a subtraction problem.

I can create a subtraction sentence and solve problems with numbers 0 to 10 by “taking apart” to find the difference.

Lesson:

Students were introduced to our story for the week - *Pete the Cat and the Missing Cupcake*. While reading this book, the students reviewed a variety of ELA skills - compound and rhyming words, but the primary focus of this lesson was on our MATH skill in 4K-Subtraction! In this story, Pete and his friend Gus made 10 cupcakes (perfect practice a 10 Frame) for a party; however, someone...or something kept taking the cupcakes.

After reading the story, the students were introduced to the art of an American artist - Wayne Thiebaud! They were asked to compare Thiebaud's art to that of the illustrator from the text, James Dean. The students were able to identify that both showed examples of SWEET TREATS! Then, the students explored in detail more of Thiebaud's tasty prints, looking at everything from cakes to pies to cupcakes! They identified key details of the art and focused on how "REAL" the pieces looked. Together, the teacher and the students used a variety of Thiebaud's art prints to practice subtraction story problems.

Finally, after practicing the tasty subtraction problems whole group, the students were given a problem to solve independently *Difficulty levels depended upon groups*. This problem became the inspiration for their "real" artwork!

Once each student solved his/her subtraction problem, they began creating their Thiebaud inspired cupcake creation. When it was time to create their realistic piece of cupcake art, students were given flour, salt, and water to create a mixture. Students mixed the items until a paste was formed, just like icing! The students then used their spatulas (popsicle sticks) to ice their cupcakes which were created by cutting trapezoids from a piece of paper. After the students iced their cupcake, the art went into the microwave to cook for about 30 seconds. The end result was a cupcake that looked so "real" you could eat it! Of course, we added sprinkles too! We finished our lesson by discussing realism vs abstract prints in art.

Finally, all of the CUPCAKE CREATIONS were placed on a table, and students were shown a random subtraction sentence. The students was asked to read the subtraction sentence, and find a piece of Cupcake Art which represented that mathematical problem.

At the end of the lesson, students had the opportunity to participate in a Culinary Arts experience, as they decorated their very own cupcake for a 4K CUPCAKE WAR Competition! We had beautiful cupcakes. We even created our own *Cold Case* display inspired by Thiebaud....that is until OUR cupcakes went MISSING!

Vocabulary

Materials

realism
texture
subtract
difference
take-away
total
answer

Flour
Salt
Water
Glue sticks
Scissors
Scrapbook & Construction paper
Pencils and/or markers