**Project Title: Fun with Fractions**

**Appropriate Grade Levels:** 3-5 grade

**Activity Objective:** To teach students the concepts of fractions while expanding their knowledge and comprehension of careers that use fractions.

**Materials Needed:** This activity can be done using a variety of different materials around the house. 

* Fraction Tower
* Food
* Legos
* Play Dough
* Paper
* Fraction Printouts

**What are fractions?** Fractions are numbers that represent a part of a whole. They are typically written as *a/b,* where *a* is the numerator and *b* is the denominator.

<https://www.math.net/fraction>

**Louisiana Grade Level Standard:**

3.NF (Numbers and Operations - Fractions)

1. Develop understanding of fractions as numbers.
2. Understand a fraction 1/*b*, with denominators 2, 3, 4, 6, and 8, as the quantity formed by 1 part when a whole is partitioning into *b* equal parts; understand a fraction *a/b* as the quantity formed by *a* parts of size 1/*b*.
4. Explain equivalence of fractions with denominators 2, 3, 4, 6, an 8 in special cases, and compare fractions by reasoning about their size.
   1. Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.

**Rationale:** Fractions are an important concept in many areas of life, whether it be for a career or for day to day activities. It can be used in the medical field, cooking as a chef or at home, science, and farming to name a few areas. Fractions are an important concept that allows you to measure out items and keep track of percentages and rates.

**Careers Related to Fractions:**

* **Hair Stylist**: A hair stylist is a career where a person can cut, color, highlight, and transform hair into different styles and looks. They use fractions in measuring out hair dye and colors.
  + <https://www.bls.gov/ooh/personal-care-and-service/barbers-hairstylists-and-cosmetologists.htm>
* **Chef**: A chef is a career where a person cooks different meals for customers and guests. They use fractions all throughout the cooking experience to measure out the ingredients for the meals.
  + <https://www.bls.gov/ooh/food-preparation-and-serving/chefs-and-head-cooks.htm>
* **Doctors, Nurses, and Other Careers Related to the Medical Field**:  Within the medical field, there are a large variety of different careers that a person can go into. A doctor evaluates and diagnoses a patient based on their symptoms and test results. A nurse helps the doctors by taking the vitals and symptoms down for the doctor to review. Fractions are used in blood pressure and heart rate.
  + <https://www.bls.gov/ooh/healthcare/physicians-and-surgeons.htm>
  + <https://www.bls.gov/ooh/healthcare/registered-nurses.htm>
  + <https://www.bls.gov/ooh/healthcare/home.htm>

**Learn more:** How can you and your child learn more about fractions at home for FREE?

1. A fun and interactive way to help your child learn fractions is to cook or bake with them. Allowing them to use the measuring cups along with you can help them more easily visualize fractions. If you bake a pie or cake, you can cut the item at the end into fractions with your child.
2. Legos or any building blocks are a great way for children to be able to conceptualize fractions. This link includes how one parent does it with their children.

<https://jdaniel4smom.com/2015/02/lego-fraction-games-kids.html>

1. Play Bingo with this free printable worksheet to help make learning more fun and entertaining for your child.

<https://www.schooltimesnippets.com/2015/01/fractions-bingo-game.html>

Video Link

<https://youtu.be/MUfE1kYsQJk>