Common Core Math Ideas for the Kitchen and Garden Classroom

Common Core Math Standards

Strands

- Counting and Cardinality
- Operations and Algebraic Thinking
- Numbers and Operations Base Ten
- Numbers and Operations Fractions
- Measurement and Data
- Geometry

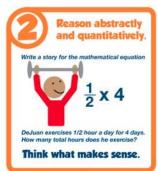




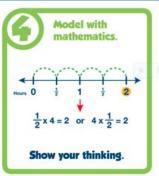
Common Core Math Standards

Standards for Student Mathematical Practice



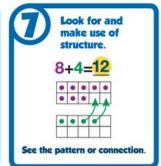










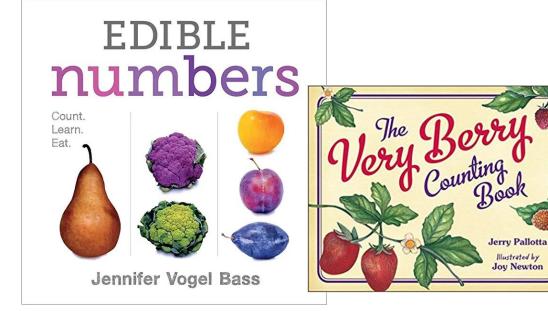


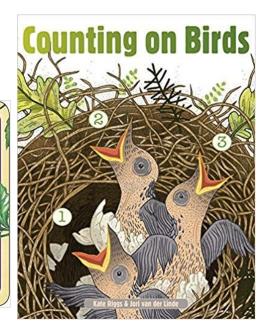




Counting and Cardinality

Counting and comparing numbers





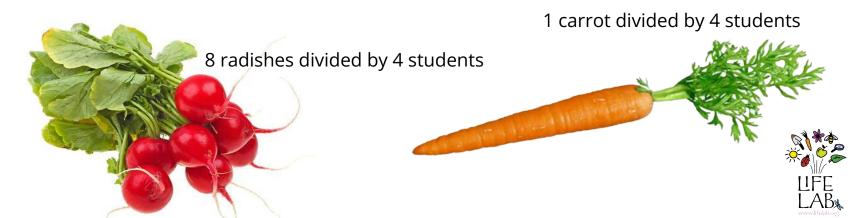


Operations and Algebraic Thinking

Addition, subtraction, multiplication, division

How many of this vegetable do we have?

How can we share this vegetable?



Numbers and Operations: Base Ten and Fractions

Place value (decimals) and fractions



"I think the spinach plant will grow the tallest in a soil that is made up of / 10 clay

> ___ / 10 sand ___ / 10 compost

because_____





Flavor (Acid)

- Balsamic vinegar

 White wine
- White wine vinegar
- Red wine vinegar
- Apple cider vinegar
- Lemon juice, lime juice

Oil (Base)

Oil (Base)

- Olive oil
- Canola oil
- Vegetable oil



Sort objects based on attributes (color, size, shape, etc)





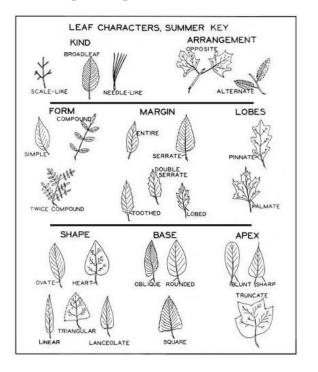




Allow students to choose categories



Naming categories

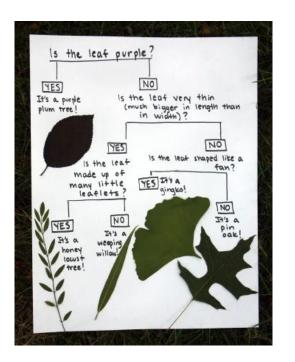




Create overlapping categories (Venn Diagram)



Create Dichotomous Key





Creative ways to collect and create patterns





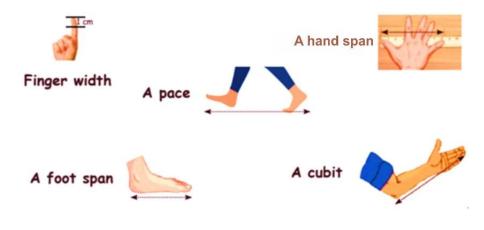
Measurement: Time and Money





Measurement: Measuring Length

Non-standard units of measurement

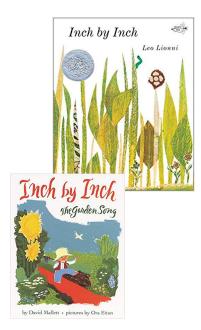






Measurement: Measuring Length

Standard units of measurement



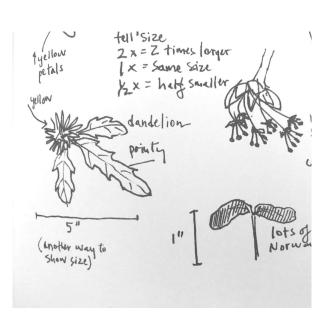




Measurement: Measuring Length

Estimating and recording measurements







Measurement: Perimeter, Area, Length









Data

Types of Graphs:

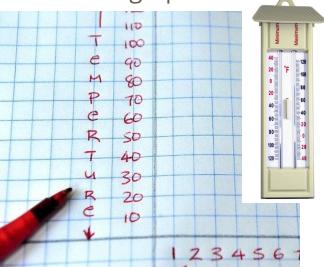
picture graphs



bar graphs



line graphs





Data

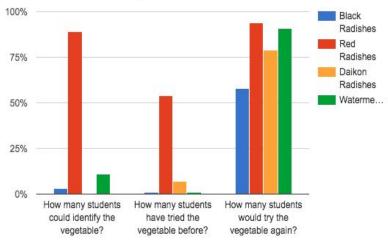
Bar Graph Extensions:

sticky note bar graph



double bar graph

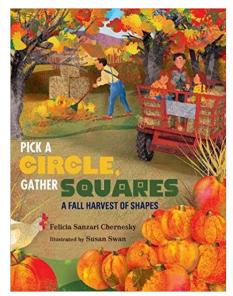


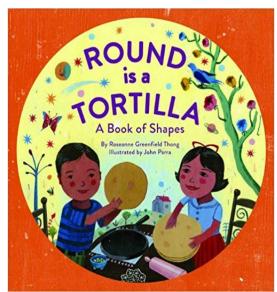


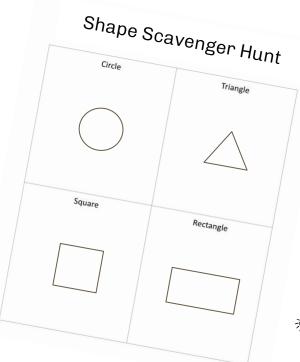


Geometry: Identifying Shapes

2 and 3 dimensional shapes









Geometry: Visualization

2 and 3 dimensional shapes

What shapes do you see in the vegetable?

What shape would you see if you sliced the vegetable?





Geometry: Symmetry





Geometry: Symmetry

Reflectional Symmetry

Rotational Symmetry













