

WHAT'S INCLUDED?

created by Whitney Shaddock, the first grade roundup

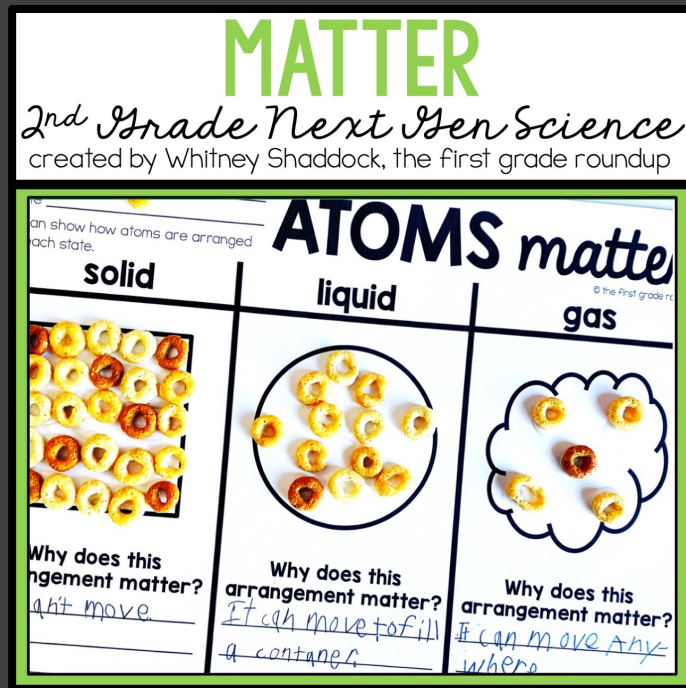
3 weeks of
lesson plans

unit outline

10 objective
cards

16 vocab
match cards

22 anchor
charts



1 STEM
challenges

7 hands-on
activities

**exploration
stations**

5 science
experiments

printables

UNIT OVERVIEW + LESSON PLANS + OBJECTIVES

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Matter: Week 1

Essential Question: How are materials alike and different? (2-PSI-1)

DAY 1 (20 min): States of Matter. Read the pebble go article <https://pebblego.com/modules/2/categories/2988/articles/2104> or the book What is the World Made Of? (only read half way through...stop where it starts talking about water changing states ☺) Chart your learning about matter and solids, liquids and gases. **Guiding questions:** Is this material solid, liquid or gas? **Literacy Connection:** Write an expository piece about the states of matter.

DAY 2 (30 min): Sorting Matter. Review what you learned yesterday about solids, liquids and gases. Use the blackline sort for review or extra practice. **Guiding questions:** How are materials alike and different? **Literacy Connection:** Write an expository piece about the states of matter.

DAY 3 (30 min): Atoms Matter. Watch this video about the states of matter <https://www.youtube.com/watch?v=wciY8F-UoTE>. Record your learning about atoms look in each of the states of matter using the atoms matter handout. Discuss matter. **Guiding questions:** How are the atoms different in each state? Why?

DAY 4 (45 min): Observing Properties. Put 8 objects in a ziplock bag. Each group will have a different set of objects. Suggested objects: paper clip, rubberband, pipe cleaner, balloon, fabric sample, rock, etc. Observe each object at a time and observe it as a group using their eyes or a magnifying glass. Record on the recording page. After groups are finished, watch this video: <https://www.youtube.com/watch?v=wciY8F-UoTE>. Chart categories of properties. Next, have them do an open sort of the objects (see the recording page). Then, have the groups quickly rotate through the other groups to see if they can find the same objects. **Guiding questions:** What characteristics or properties do you see? **Connection:** Talk about adding adjectives to our writing and make the connection between the objects and the anchor chart template included.

DAY 5 (30 min): Oobleck. Review the states of matter and their properties. Follow the directions on the Oobleck lab sheet. Encourage students to make a claim on why they think it is a solid, liquid or gas. After the experiment, watch this video to explain oobleck: <https://www.youtube.com/watch?v=wciY8F-UoTE> they learned.

I can research the usefulness of a variety of matter.



Matter Unit Outline

Big Idea: Matter can change.

Week 1: How are materials alike and different?

(2-PSI-1)

Week 2: How do properties of materials

determine their use? (2-PSI-2)

Week 3: How does matter change? (2-PSI-3, 2-PSI-4)

the buoyancy of materials.



16 ACADEMIC VOCABULARY MATCHING CARDS

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Use these to...

- introduce vocabulary
- match words to definitions in centers
- post on a science vocab word wall.

how a material feels	something that can't go back to its original state
© the first grade roundup	© the first grade roundup
something that can go back to its original state	the ability of a material to be stretched
© the first grade roundup	© the first grade roundup

matter

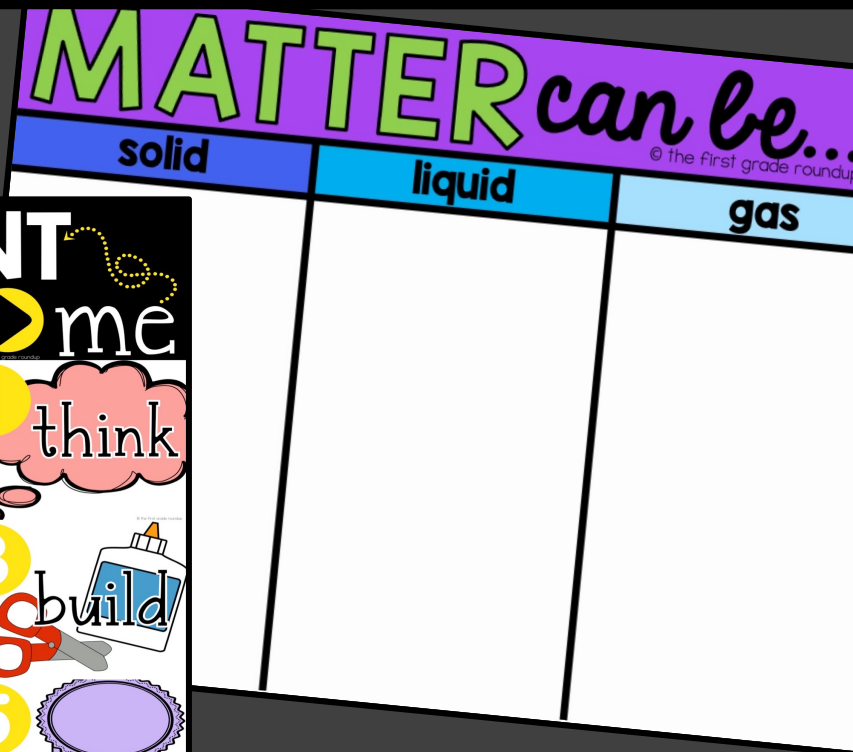
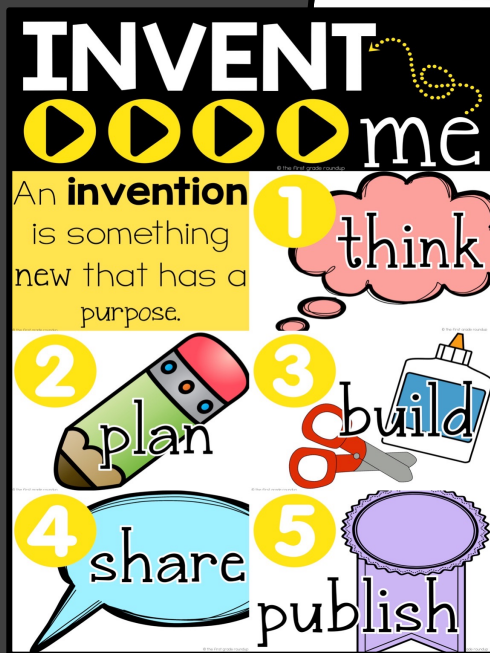
property

classify

22 ANCHOR CHARTS IN COLOR AND BW TEMPLATES

created by Whitney Shaddock, the first grade roundup

States of matter *
atoms * properties
describe matter (plus
color, taste, density, size,
odor, shape) *
adjectives describe... *
hardness * elasticity *
texture * shininess *
invent me * matter
changes



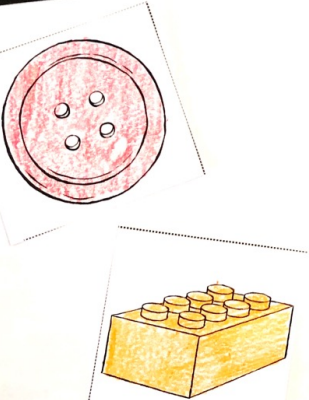
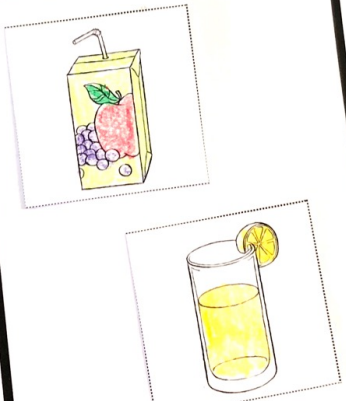
HANDS ON ACTIVITIES

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States of matter sort (*left*) • atoms matter (*right*) • property sort • research project (*next page*) • building blocks • crossword & word find (*next page*)

sort matter into categories.

MATTER can be...

solid	liquid	gas
		

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me
te
can show how atoms are arranged
each state.

ATOMS matter

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solid	liquid	gas
		
Why does this arrangement matter? It can't move.	Why does this arrangement matter? It can move to fill a container.	Why does this arrangement matter? It can move anywhere.

MORE PRINTABLES & WRITING PROMPTS

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Plus answer keys where needed

Name _____

Date _____

MATTER crossword

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Name _____

Date _____

MATTER word find

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word list

- matter
- property
- observe
- classify
- texture
- irreversible
- reversible
- elasticity
- solid
- liquid
- gas
- buoyancy
- hardness
- atom
- material

Name _____

Date _____



SHININESS

What is the difference between a diamond and a rock? Shininess!
Different materials reflect light differently. How well the reflect light determines

Name _____

Date _____

BUILDING blocks

I can build 2 different objects with the same materials.

A

I built _____

B

I built _____

s. Many times shiny
y materials are useful.
ny clear coat material

s much light. They can
materials that are

cannot find out how
rials. Shiny materials
rials do not sparkle or
ull materials?

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RAIN HAT STEM CHALLENGE

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PLAN

2

the idea



1. What should the rain hat look like?
2. What properties should it have?
3. What materials will help make the hat work?
4. How will you build it?



What's the PROBLEM?

1 think



The weather took a surprising change today. It was sunny in the morning, but at lunch it suddenly started raining. Priscila has to walk home from school and she didn't bring any rain gear! She only has a few materials. Can you help her design and build a rain hat to stay dry?

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Name _____
Date _____

My Rain Hat Results

I can publish the results of my rain hat design and its effectiveness.

Did my plan **protect** Priscila from getting wet? Why or why not?

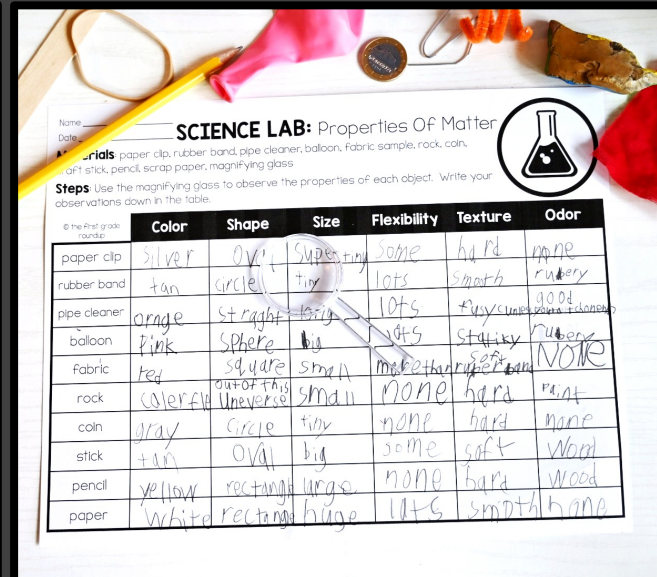
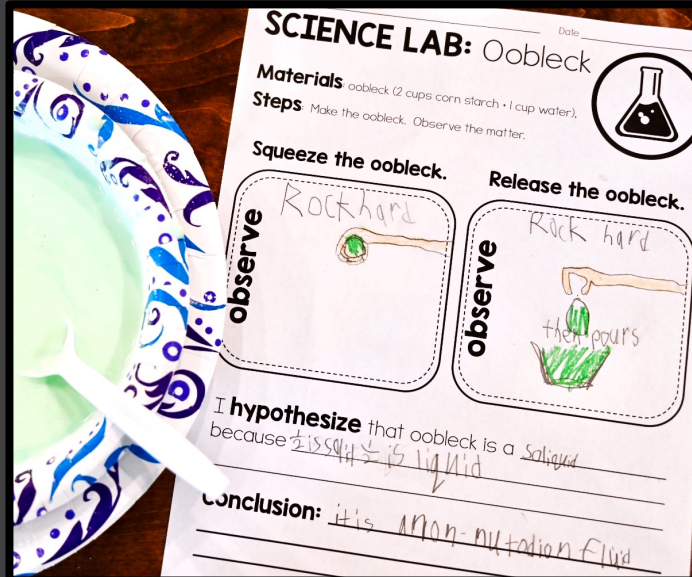
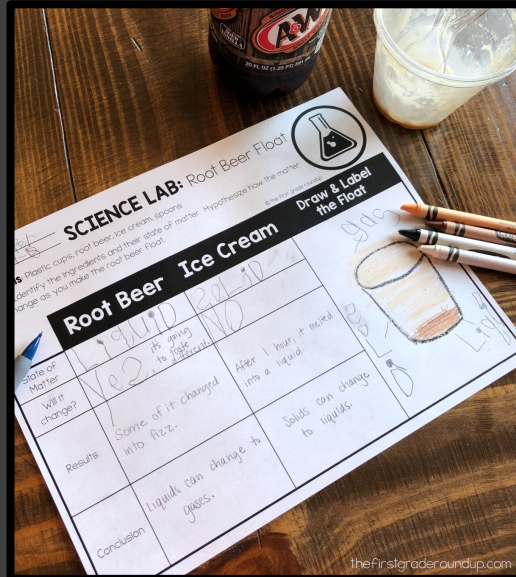
I can draw a picture of the results of my solution.

Slides & Printables
for each step

5 SCIENCE EXPERIMENTS

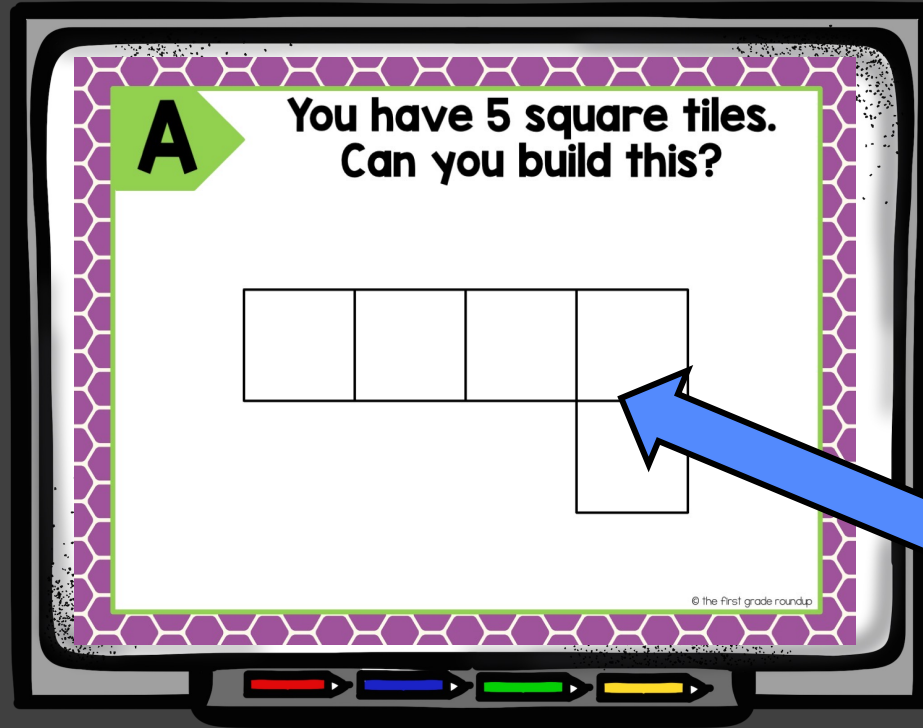
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Properties of Matter (right) * Root Beer Float (left) *
Oobleck (center) * Sink or Float * Rock Candy



DIGITAL ACTIVITIES

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Reversible &
irreversible changes
slideshow

5 rearrange it slides

WHAT OTHER TEACHERS ARE SAYING

thefirstgraderoundup.com

My school requires me to teach NGSS but did not provide me with any resources to teach this strand. This packet was perfect for meeting the standards and keeping my kids engaged!

So many amazing activities in the unit, it has made its mark in my matter unit and I will continue to use this unit in years to come!

This is a complete unit that teaches all of the 2nd grade physical science standards with engaging and fun hands on activities.

~Jesse

HOW TO USE THIS UNIT

thefirstgraderoundup.com

This unit is a science unit based on the NGSS. It is not a fully integrated unit like many other units in my store (<https://bit.ly/CCunits>). It is heavy science. However, I have added literacy connection notes to help you find integration opportunities as well as a few writing prompt templates.

Each week has 5 lessons ranging from 15-45 minutes long. This is intentional and to help you squeeze in science where ever you can. Read more about how to squeeze in science here: <http://www.thefirstgraderoundup.com/2015/10/squeezing-in-science-animals.html>
If you can't teach science every day, many of the lessons can be combined into a single, 45 minute lesson instead of 2 mini-lessons, etc) Feel free to modify as you see fit!

Links to trade books and resources can be found in here:
www.thefirstgraderoundup.com/2021/02/2nd-grade-matter-science-labs.html
Feel free to email me if you have any questions: thefirstgraderoundup@gmail.com

HOW TO USE THE ANCHOR CHARTS

thefirstgraderoundup.com

There are several anchor charts in this unit. Research tells us that best practice is to fill out anchor charts with our kids instead of posting a premade chart. Any anchor chart that is premade is intended as a reference for you and not as a poster for kids! 😊 Here are some ways to use the anchor charts!

1. *Digital chart* - put the pdf on your interactive white board and record on the chart. Then you can go back and make it pretty on paper when you have more time later. Or, if it's just a brainstorming chart that you don't need to keep past one lesson, digital charts are a great option!

2. *Printed chart* - print out the full page template and add the information with your kids. This will be an 8x11 size and is okay for writing together under an ELMO/ladybug and then posting in a smaller area of the room for station use (like at a writing station) It's not the best option for reading across the room during desk work.

3. *Print a large poster* - watch my free video on printing single pages as large poster sizes across multiple pages. This is great when you need a larger option!

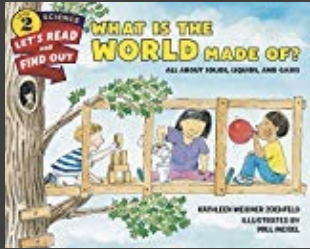
<https://www.teacherspayteachers.com/Product/Printing-Tips-for-Adobe-3099101>

4. *Trace it!* - pull up the pdf template on your interactive white board. Tape chart paper or butcher paper on top of the white board and trace the chart. Just trace the basics and then fill in the important details with your kids!

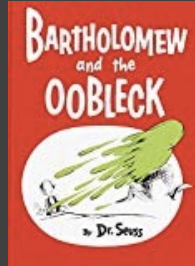
OUTSIDE RESOURCES RECOMMENDED

thefirstgraderoundup.com

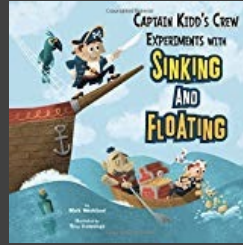
Here are the affiliate links for the trade books suggested in this unit.



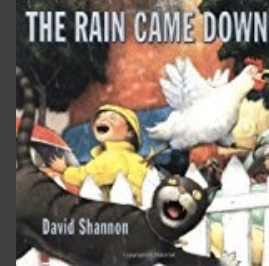
amzn.to/2yJbHE



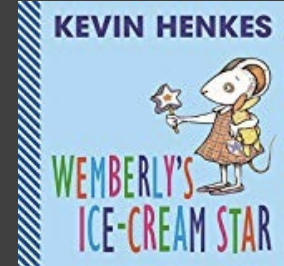
amzn.to/2NvsUES



amzn.to/2ytMEn9



amzn.to/2yjvqsl



amzn.to/2yjSOB4

Here are the affiliate links for resources you may need a closer look at or help finding. Other resources that are commonly found at Walmart are just listed.

Cheerios
Paper clips
Rubber bands
Pipe cleaners
Balloons
Fabric squares (scraps)
Rocks
Coins
Sticks
Pencils

Grapes
Clear tub
Foil
Felt
Wax paper
Coffee filters
Construction paper
Ziploc bags
Sugar
Wooden skewers

Stove access or hot plate - amzn.to/2E2Alp5
Pattern blocks - amzn.to/2Rutklv
Root beer
Ice cream
Plastic cups
Spoons
Corn starch
Watermelon
Food coloring
clothespins

ABOUT THE AUTHOR

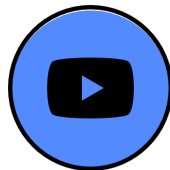
thefirstgraderoundup.com



Hey y'all! I'm Whitney Shaddock, the teacher author and blogger at the first grade roundup. I'm a National Board Certified teacher with my Masters Degree and have over 10 years of first grade experience in both high poverty and high wealth public schools. I've taught PreK Sunday School for over 17 years. I married my high school sweetheart in 2006. We were blessed with a beautiful boy in 2012 after years of infertility. In 2019, we adopted premie twins.

In 2011, I opened my TPT store. I love sharing real, practical resources I've tested and used in my own classroom. I am passionate about resources that align with the science of reading and full lesson plans and units to use in my classroom. Oh, and color coding is my love language! ☺

I love meeting new teachers, so let's connect!



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View Receipt (03/14/22) | Printing Authorization

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My own purposes
e.g. decorate room, create new resource, plan lesson, track progress

Other

4

Account balance

Account balance: **\$2.95 USD**

\$ Enter an amount to redeem

Apply

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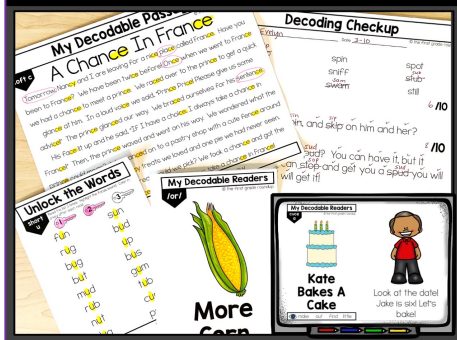


OTHER BESTSELLERS YOU'LL LOVE

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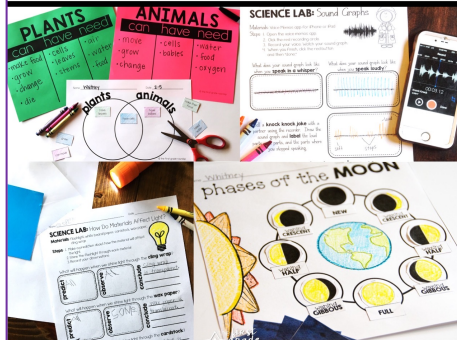
1ST GRADE DECODABLES

digital + printable texts
created by Whitney Shaddock, the first grade roundup



NEXT GEN SCIENCE BUNDLE

1st grade Units
created by Whitney Shaddock, the first grade roundup



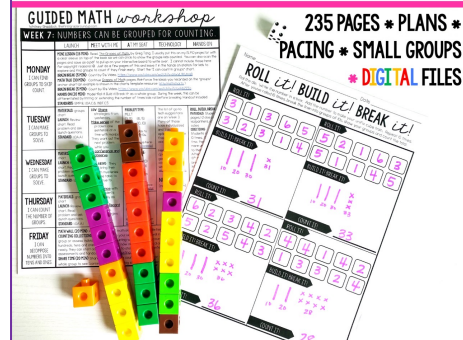
1ST GRADE PHONICS BUNDLE

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GUIDED MATH WORKSHOP

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