

WHAT'S INCLUDED?

created by Whitney Shaddock, the first grade roundup

4 weeks of
lesson plans

unit outline

12 objective
cards

21 vocab
match cards

18 anchor
charts

LANDFORMS

2nd grade unit

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2 STEM
challenges

hands-on
activities

exploration
stations

2 science
experiments

printables

UNIT OVERVIEW + LESSON PLANS + OBJECTIVES

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Landforms: Week 1

Essential Question: What kinds of landforms are found on Earth?

DAY 1 (45 min): Land or Water. Go to earth.google.com. This can be done whole group, in small groups, or individually. Follow the directions on the Virtual Tour handout. *Guiding questions:* Is it land or water? How do you know? *Math Connection:* If this is done in small groups, have each group report the number of water locations and land locations and record it on the class virtual tour page. Students will add up the total number of land and water locations each that we found as a class. There are also locations. There is a handout for this. *Blog Post ...coming soon...*

DAY 2 (20 min): What is a landform? Introduce landforms with this video article: <https://kids.britannica.com/kids/article/landform/593368>. Chart information modeling shared research for how they will do this in small groups on Day 3. The G... What is a landform? Where are they? How are they formed? *Literacy Connection*

DAY 3 (45 min): Types of Landforms. You divide students into groups of 4. Give each group a landform paper strip from a hat to see what they will research. You need to decide number of groups accordingly. If you have enough Pads, the groups will scan the not, share the links I've also provided or print them off to read if no technology is available. Give students 5-20 minutes to research, answer and record the questions from the notecards. *Literacy Connection:* Write an informative essay about the landform they researched.

DAY 4 (45 min): Comparing Landscapes. The goal is to compare 2 different areas as one landscape. Walk around and record observations of the landforms. Use the comparing landscapes page (ideally one that is most different from your school's). *Guiding question:* What landforms do you notice? How are they different?

DAY 5 (20 min): Mapping Landforms. Play guess my landform. *PREP:* Copy and paste the landform cards onto cardstock. Cut and laminate. Students pair up and get play-doh. One student draws a landform on a card. The other student has 2 minutes to build a landform. When timer is up, students try to guess the landform. Set a timer for them to write a definition for the landform on their dry erase board. Swap cards and play again. Continue to play as time allows.

I can compare and contrast events that cause Earth's surfaces to change.



Landforms Unit Outline

Big Idea: Earth's surfaces change.

Week 1: What kinds of landforms are found on Earth?

Week 2: Where is water found on Earth?

Week 3: Why do landforms change?

Week 4: STEM Challenge: Windbreakers



21 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.

a solid, natural structure made of dirt and rock © the first grade roundup	an area of raised land that is flat on top © the first grade roundup
water without salt © the first grade roundup	water with salt © the first grade roundup

landform

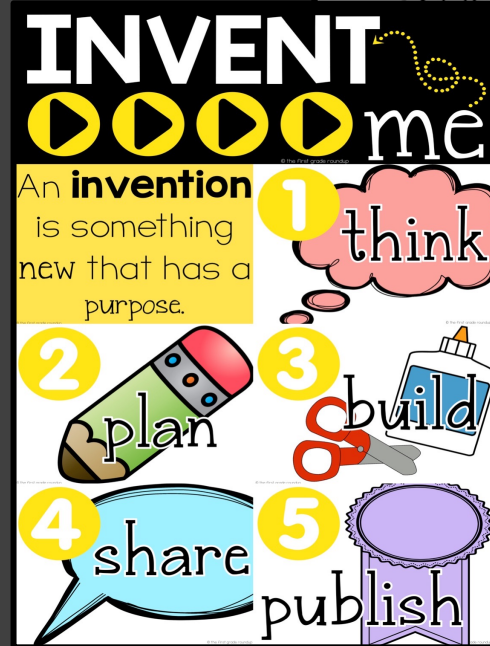
plateau

salt water

18 ANCHOR CHARTS IN COLOR AND BW TEMPLATES

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Land/water * Landforms
* Mountain * Valley * Plain *
Plateau * Volcano * Cave *
Glacier * Canyon * Water
* Pond * Lake * Ocean *
River * Invent Me * Why
do * Landforms Change?
* Erosion/Weathering
Venn Diagram



2 STEM CHALLENGES

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Slides &
Printables
for each
step

What's the
PROBLEM?

1 think



A company wants to build their own island in the middle of the Pacific Ocean. You need to submit a plan and model for the perfect island. What's your ideal island? What landforms, bodies of water, or features will it have?

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Ideal Island &
Sandcastles

PLAN the idea **2** plan

1. How can you solve Pat's problem?
2. What will your solution look like?
3. Why will it work?
4. How?

Name: Gooper Date: _____

Protect the SANDCASTLE
Think about your plan to protect Pat's sandcastle with your group to answer each of the questions.

How will my plan protect Pat's sandcastle?
It will block the water from getting to the castle.

What materials do I need?
craft sticks

I can draw a picture of my idea and label its parts.

Sandcastle
sticks

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MATH CONNECTIONS

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- Earth's Area
- Land & Water Virtual Tour

WORLD MAP

Name: _____ Date: _____

Math M

What is Earth's area?

LAND	WATER
82 squares	146 squares

EARTH'S TOTAL AREA:

$146 + 82 = \square$

$100 + 40 = 140$

$40 + 92 = 132$

$132 + 100 = 232$

Which area of Earth is the much larger is it? Show how.

Water is 64 squares larger.

$82 + \square = 146$

$82 + 64 = 146$

Earth's Area

Name: _____ Date: _____

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114
115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133
134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152
153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171
172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196													

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Land + Water Virtual Tour

Name: Whitney Date: 2/26

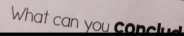
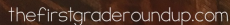
Open earth.google.com. Click launch google earth. Click "I'm feeling lucky" on the left side. You will travel to a virtual location. Look at the location and decide if it is on land or water. Record your observations. Repeat this 10 times.

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LOCATION	LAND OR WATER?	HOW DO YOU KNOW?
American Falls	water	waterfall
National Palace of Peru	land	building
Khaos Iak National Park	land	trees
Eykon Prefecture	land	rocky
Coronado Island	land	island

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- Earthquakes
- Volcanos

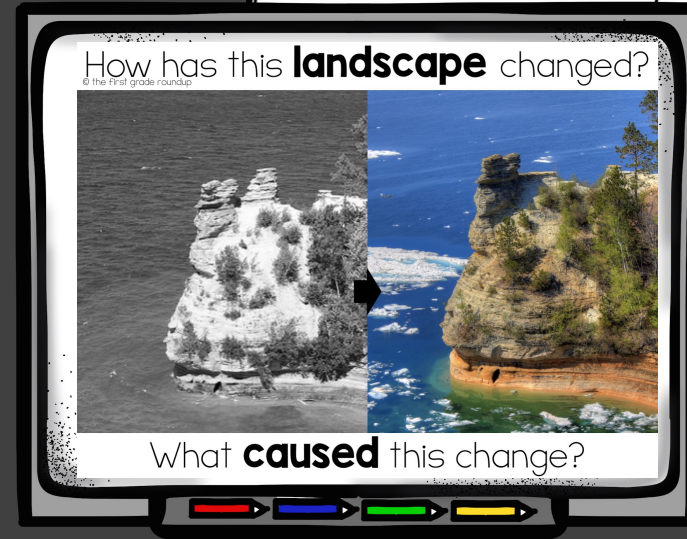
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MORE HANDS ON ACTIVITIES

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Comparing landscapes • Guess my landform
(*below*) • Globe Toss Game (more land or
water?) • Landscape Changes (*right*)



WHAT OTHER TEACHERS ARE SAYING

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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!

I was hesitant to purchase this product, but it has been one of the best purchases I have made on TPT. This resource is incredibly well done. It includes amazing resources for the teacher and engaging activities for students. My students could not get enough of the Google earth search and the picture links were explicit. This resource is highly recommended!

~Maddy

This was an amazing addition to our landforms unit! We have never covered landforms and it was added into our reading curriculum. This was fun for the kids to get to see and do. Their favorite part was the Google Earth exploring! This is still something that they like to do whenever they have free time! ~Erin

HOW TO USE THIS UNIT

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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.

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!

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!

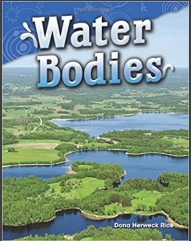
<https://www.teacherspayteachers.com/Product/Printing-Tips-for-Adobe-3099101>

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!

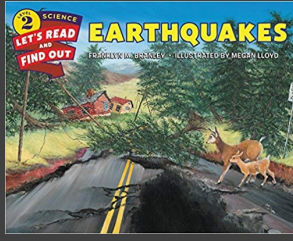
OUTSIDE RESOURCES RECOMMENDED

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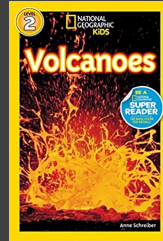
Here are the affiliate links for the trade books suggested in this unit.



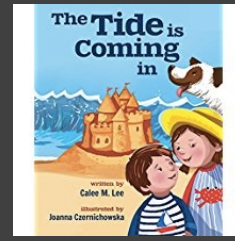
amzn.to/2NRDvLL



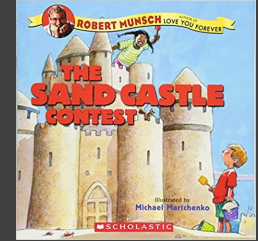
amzn.to/2NIAUzc



amzn.to/2usd7A3



amzn.to/2NgZY3R



amzn.to/2us3CAZ

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. Some articles that are linked in this unit come from www.PebbleGo.com. Many schools have a subscription to this site. But you may want to check on that first.

Play-doh

2 Globe beach ball: amzn.to/2L9ugZ5

Thin graph paper: amzn.to/2utiezU

Paper plates

Toothpicks

Sticky Note Flags: amzn.to/2NkMILL

Tempera paint: amzn.to/2zFnHsB

Wooden blocks: amzn.to/2LdmbCx

Legos: amzn.to/2urNlvY

Cookie sheets (set of 3):

amzn.to/2NIVEjX

Baking soda

Vinegar

Red food coloring

Skittles

Alka seltzer: amzn.to/2LnNOFT

Clear cups: amzn.to/2L9y8JB

Gravel: amzn.to/2NmLBeb

Sugar cubes: amzn.to/2uuplYU

Sandpaper: amzn.to/2urFEpB

Calcite: amzn.to/2Lgl4zr

Chalk: amzn.to/2uF8JgV

Sand: amzn.to/2NT6qjB

Foil pans: amzn.to/2uCqoVX

straws

ABOUT THE AUTHOR

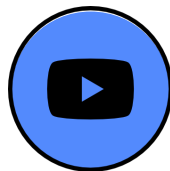
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Hey y'all! I'm Whitney Shaddock, the teacher author and blogger at the first grade roundup. I'm a National Board Certified teacher with my Masters Degree and have over 10 years of first grade experience in both high poverty and high wealth public schools. 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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Other

4

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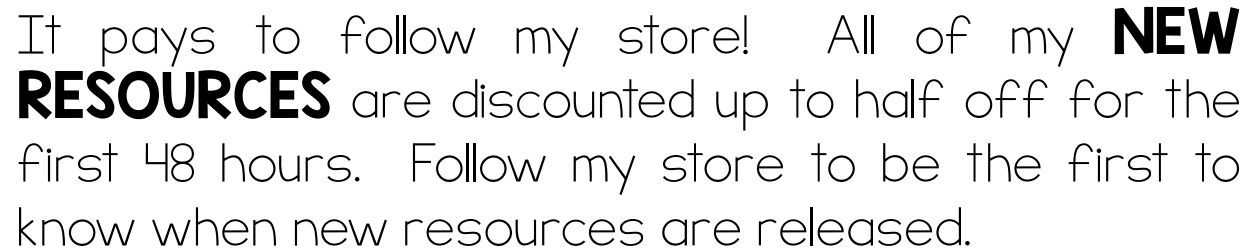
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digital + printable texts
created by Whitney Shaddock, the first grade roundup



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