Solar System Packet Made by Liesl

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Feel free to make as many copies as you need for your kids or the students in your classroom.

This file may not be uploaded to any file sharing website.

You will see there are several different options that you can print out and use with your students. Choose the one the will work best for the ages of your student/s!

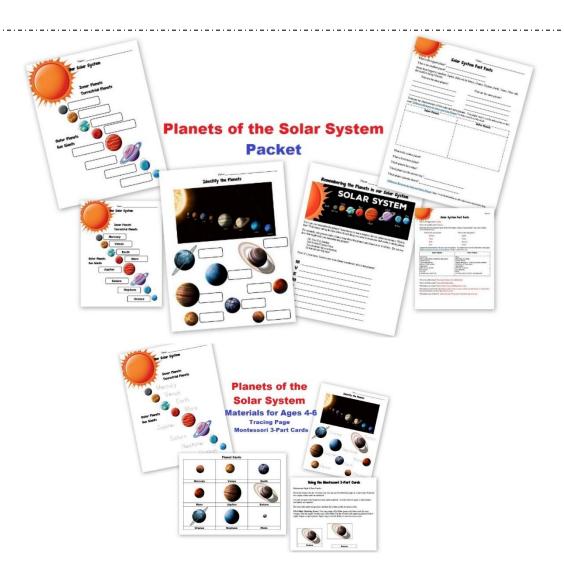
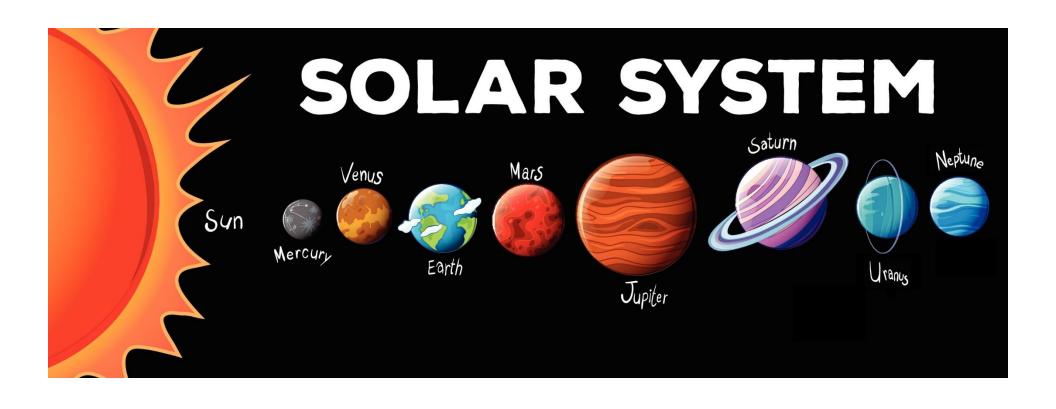
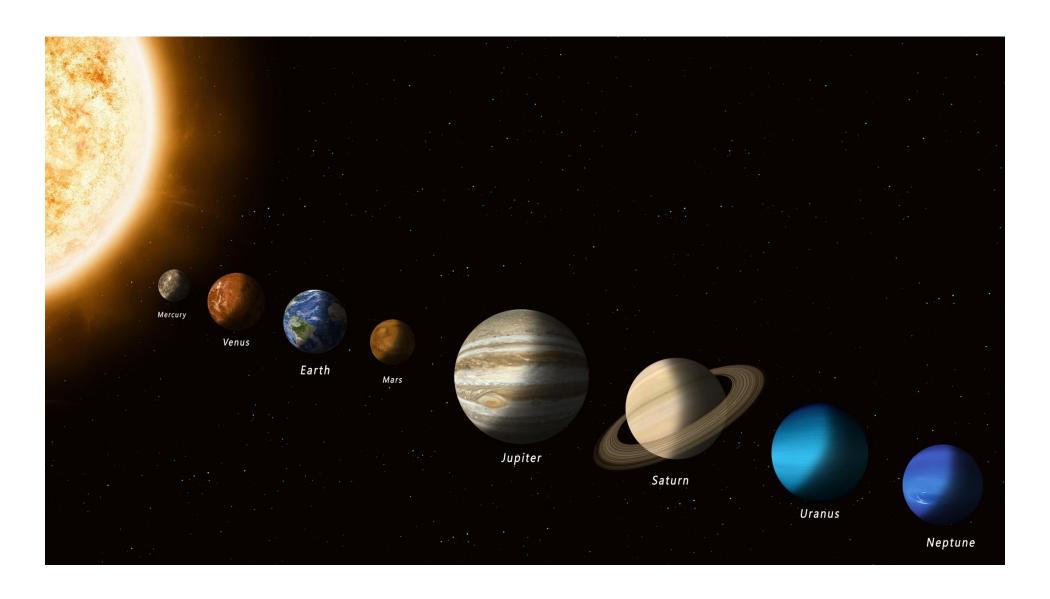


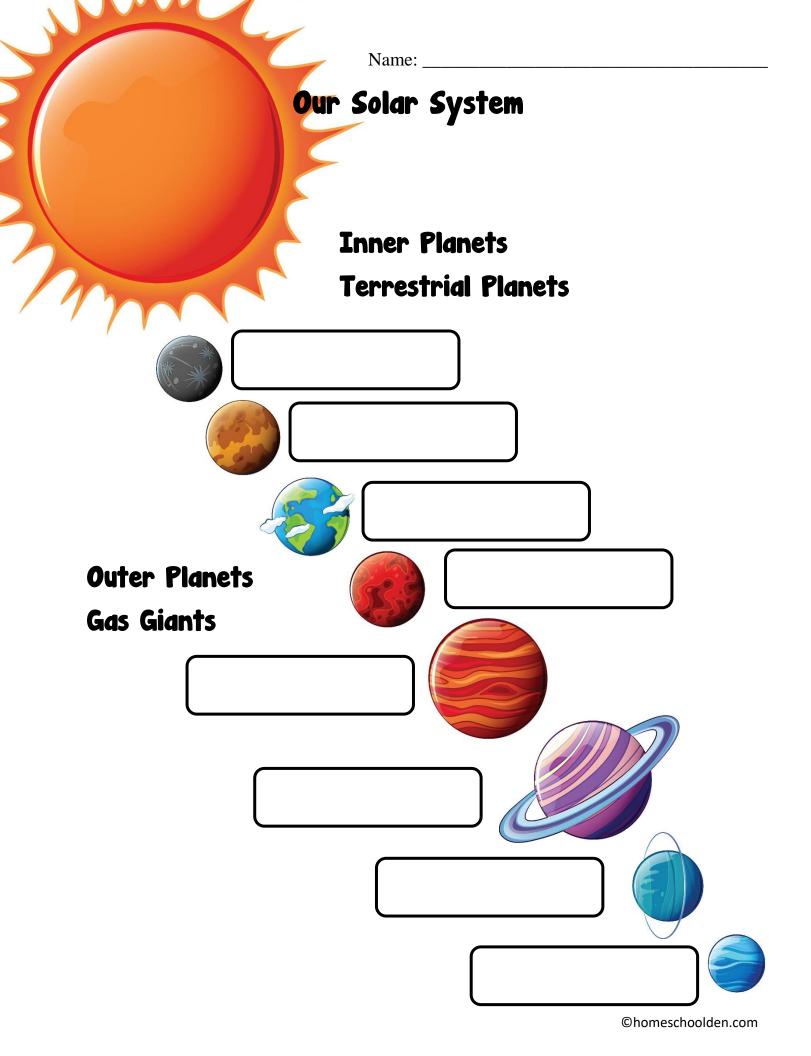
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- Solar System Fast Facts Page (largest/smallest planet, shortest day, hottest planet, etc.)
 Answer Page (page. 10)
- Identify the planets page NASA images (page 11)
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- Identify the planets page NASA images (page 14)
- How to Use Montessori Cards Instruction page (page 15)
- Planet Cards (page 16)
- Blank Planet Research Cards (pages 17-20)
- P.S. For younger kids, you might want to check out these posts (these take you WAY back in time here at the Homeschool Den!), but your kids might enjoy some of these hands-on activities. ② ~Liesl
 - Earth Science Unit Gravity
 - Earth Science Gravity: the planets, moon and space
 - Astronomy Unit: Refraction, Vacuum, Saturn's Rings
 - Astronomy Unit: Inner and Outer Planets, The Asteroid Belt
 - Astronomy Unit: The Moon (Day 1)
 - Astronomy Unit: The Moon (Day 2)
 - Phases of the Moon Activity: Homemade Oreo Cookie Recipe (Yum!!)



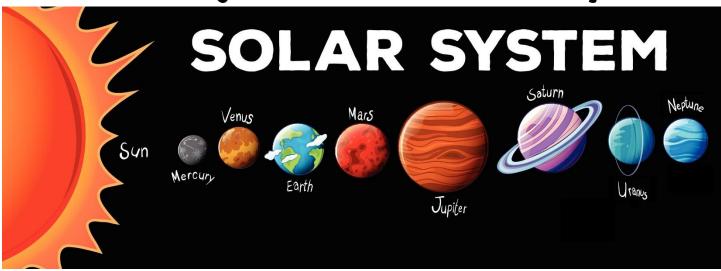
Solar System





Name:

Remembering the Planets in our Solar System



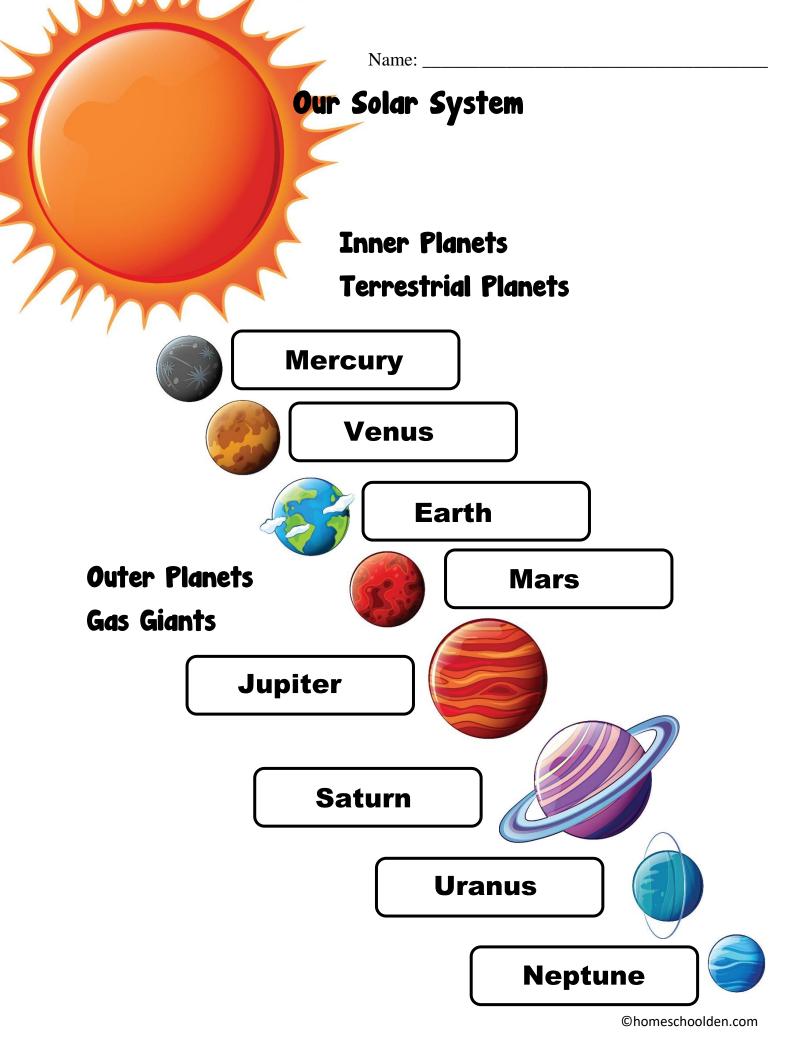
How can you remember the planets? Sometimes we use a memory device called mnemonics. What is that? That means taking the first letter of each thing you need to remember and create a catchy phrase.

For example, one person made a funny song about the planets and shared it on YouTube. Do you see how that might help you remember the planets?

My Very Evil Mother
Just Swatted Uncle's Nose
You shouldn't hit your brother,
Or bite his two big toes!

Now it's your turn. Create your own funny mnemonic about the planets!

M			
V			
E			
M			
J			
S			
U			
N			



Name:
Our Solar System
Inner Planets
Terrestrial Planets
Mercury
Venus
Earth
Outer Planets Gas Giants
Jupiter
Saturn
Uranus
Neptune 🌏
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Name:

Solar System Fast Facts

What is the biggest planet?	
What is the smallest planet?	
Order from largest to smallest: Jupiter, followed the smallest being Mercury.	d by Saturn, Uranus, Neptune, Earth, Venus, Mars with
What are the inner planets?	What are the outer planets?
Compare the characteristics of the inner and our page: Difference Between the Inner and Outer Plane	ter planets. You might want to use the information on this ets* to help you fill out the chart:
Inner Planets	Outer Planets
What is the coldest planet?	
What is the hottest planet?	
Which planets have rings?	
Which planet has the shortest day?	
Which planet spins the fastest?	

<u>Difference Between the Inner and Outer Planets</u>: http://www.bobthealien.co.uk/solarsystem/innerouter.htm

Solar System Fast Facts

What is the biggest planet? Jupiter

What is the smallest planet? Mercury

Order from largest to smallest: Jupiter, followed by Saturn, Uranus, Neptune, Earth, Venus, Mars with the smallest being Mercury.

What are the inner planets? What are the outer planets?

Mercury Jupiter

Venus Saturn

Earth Uranus

Mars Neptune

Compare the characteristics of the inner and outer planets. You might want to use the information on this page: <u>Difference Between the Inner and Outer Planets</u> to help you fill out the chart:

Inner Planets	Outer Planets		
Small Size	Huge		
Have a solid surface and thin/no atmosphere	Ball of gas, no surface		
Greater density	Smaller density		
Varied atmospheres	Similar atmosphere – hydrogen, helium, methane		
Known by the ancients	Not known by the ancients		
Spin slowly	Spin quickly		
Orbit the sun quickly	Orbit the sun slowly		
Few moons	Lots of moons		
No rings	Rings		
Multiple space craft visits	All outer planets visited by one spacecraft		

What is the coldest planet? On average Neptune is the coldest planet

What is the hottest planet? Venus is the hottest planet.

Which planets have rings? Jupiter, Saturn, Uranus and Neptune have rings.

Which planet has the shortest day? Mercury takes 59 days to make a rotation but only 88 days to circle the Sun. That means that there are fewer than 2 days in a year!

Which planet spins the fastest? Jupiter takes only 9 hours and 55 minutes to spin on its axis.

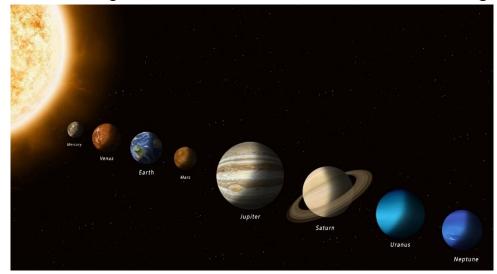
	Name:
2-1-1	Our Solar System
Page 19 Jan 19	
	Inner Planets
	Terrestrial Planets
Outer Planets	
Gas Giants	

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Name:
Our Solar System
Inner Planets
Terrestrial Planets
Mercury
Venus
Outer Planets Cas Cients
Gas Giants The second
Jupiter
Saturn
Uranus
Neptune

Name:

Remembering the Planets in our Solar System



How can you remember the planets? Sometimes we use a memory device called mnemonics. What is that? That means taking the first letter of each thing you need to remember and create a catchy phrase.

For example, one person made a funny song about the planets and shared it on YouTube. Do you see how that might help you remember the planets?

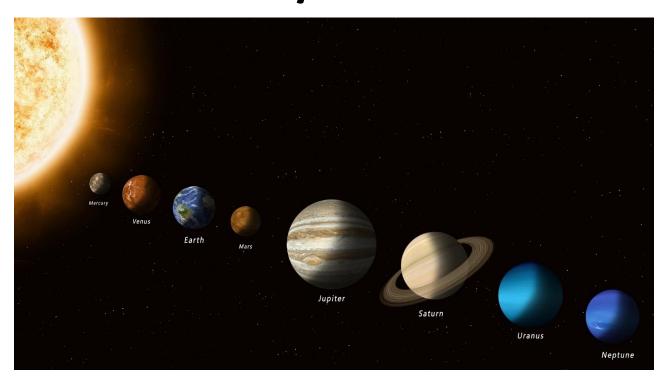
My Very Evil Mother
Just Swatted Uncle's Nose
You shouldn't hit your brother,
Or bite his two big toes!

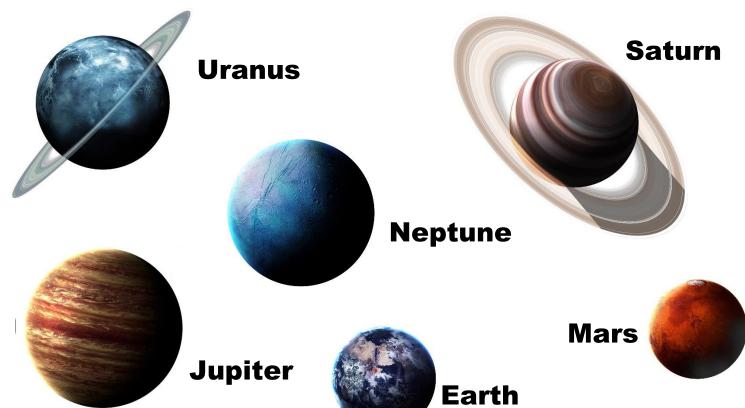
Now it's your turn. Create your own funny mnemonic about the planets!

M			
V			
E			
M			
J			
S			
U			
N			

Name:

Identify the Planets



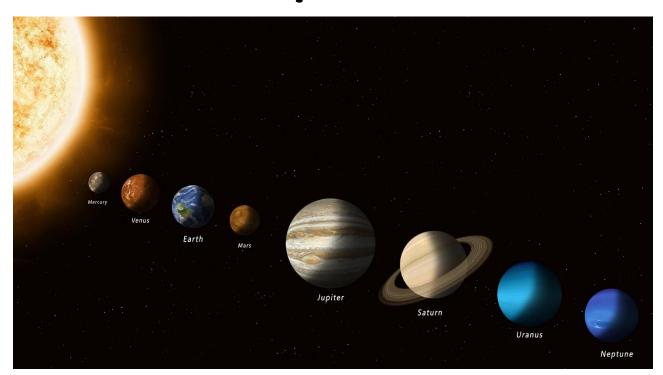


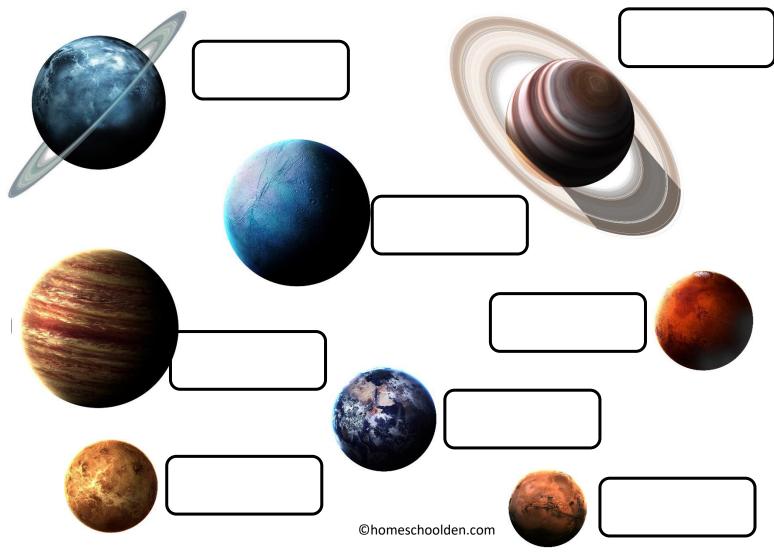




Name: _____

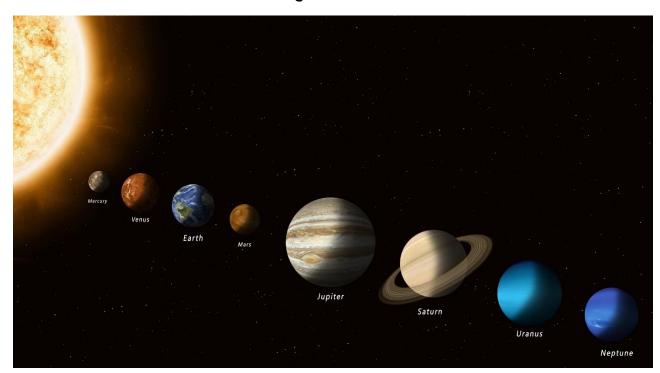
Identify the Planets





Name: _____

Identify the Planets





Uranus



Neptune



Mars



Saturn

Earth



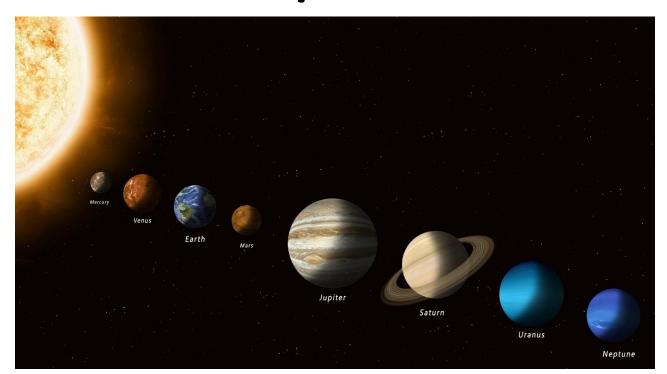
Venus



Mercury

Name:

Identify the Planets

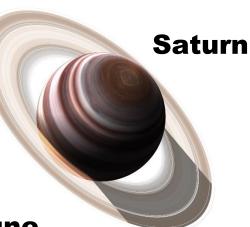




Uranus



Neptune





Jupiter



Earth

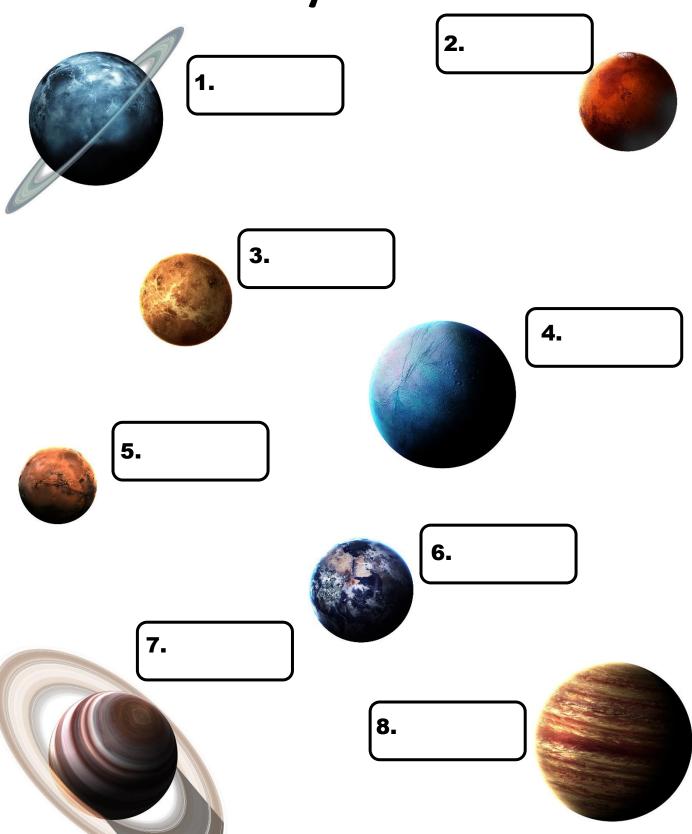








Identify the Planets



Using the Montessori 3-Part Cards

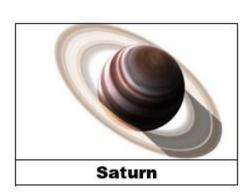
Montessori Style 3-Part Cards:

If you have kids who are 4-6 years old, you can use the following page as 3-part cards. Print out two copies of the cards on cardstock.

Cut one set apart with the picture and names together. Cut the other set apart so the pictures and names are separate.

Have the kids match the pictures and then have them match the name cards.

File Folder Matching Game: You can create a file folder game with these cards for easy storage. Glue the pages directly onto a file folder Cut the second cards apart (as pictured below right). Staple or tape a plastic Ziploc bag to the file folder to store the loose cards.





Saturn

Planet Cards

Mercury	Venus	Earth
Mars	Jupiter	Saturn
Uranus	Neptune	Pluto

	Venus
-	
-	

Earth

	Mars
-	

<u>Jupiter</u>

Saturn

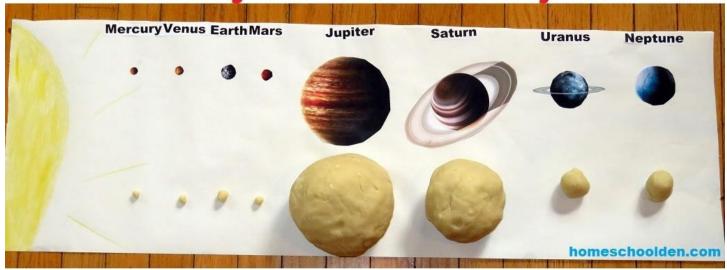
<u>Uranus</u>

Neptune

Solar System to Scale Project

(Directions for your student/s are on the next page)

Solar System to Scale Project



Create a lot of playdough!

Here's my homemade playdough recipe... I think I made 4 batches (so buy a lot of cream of tartar, which is in the spice area, and make sure you have a lot of salt on hand).

Place in a saucepan and then cook in a sauce pan until the mixture solidifies. (You'll kind of know.)

- 1 cup flour
- 1/3 cup salt
- 1 Tablespoon Cream of Tartar
- 1 Tablespoon oil
- 1 Cup Boiling Water
- 1 teaspoon of glycerin (optional, it just makes the dough a little smoother feeling)

I recommend making ONE batch at a time!

Solar System to Scale

1. Make 10 equal sized balls



- 2. Combine 6 balls to make Jupiter.
- 3. Combine 3 ½ balls to make Saturn
- 4. Make 5 smaller balls (from the ½ ball that is left)



- 5. Use 2 balls for Uranus. Use 2 balls for Neptune
- 6. Use the 5^{th} ball and make 10 more balls.



- 7. add 9 of these balls to Saturn.
- 8. Break the 10th ball into 2. 0
- 9. One will be earth. o
- 10. Make Venus, Mars and Mercury out of the last ball!

Venus will get most of the play-doh and Mercury will get the least!

Solar System to Painting Project

(I purchased a variety of Styrofoam balls)

I had three groups and bought...

3 packages of Make It Fun Styrofoam Ball Assortment 4in, 3in, 2.5in, 2in -

It came with two 2-inch balls, two 2.5-inch balls, one 3-inch ball and one 4-inch ball

Floracraft Styrofoam Balls, 1-1/2", 12/pkg, White

But I also had a few tiny ½ or ¾ inch foam balls that they used as well.

I provided 4 sparkly pipe cleaners for each group, a large piece of butcher paper and the planets (on the next page) as well as labels that the students had to glue in the proper order. Plus, they needed glue, markers and paint (for painting their Styrofoam balls).

Students used the 4-inch ball for Jupiter, the 3-inch ball for Saturn (plus I provided them with 4 sparkly pipe-cleaners to use as rings), they used the two 2 ½ inch balls for Uranus and Neptune. They used smaller balls for the inner planets.

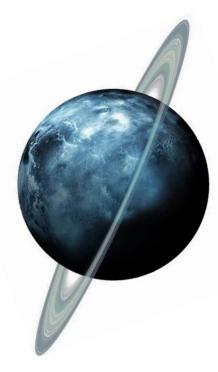














Earth Saturn

Neptune Mercury

Mercury Jupiter

Venus Earth

Jupiter Mars

Mars Uranus

Saturn Venus

Uranus Neptune

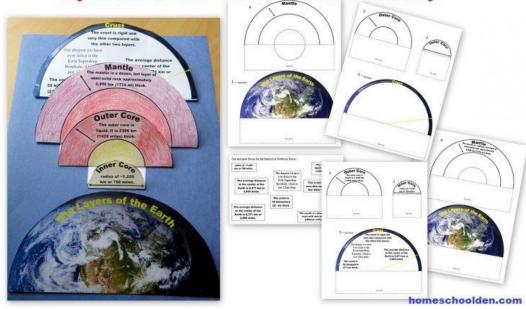
You might also be interested in these packets:

Earth Science Packet (150 pages)

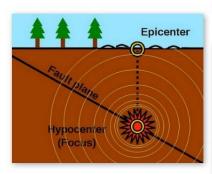


Earth Science Packet (more pictures of what's included...)





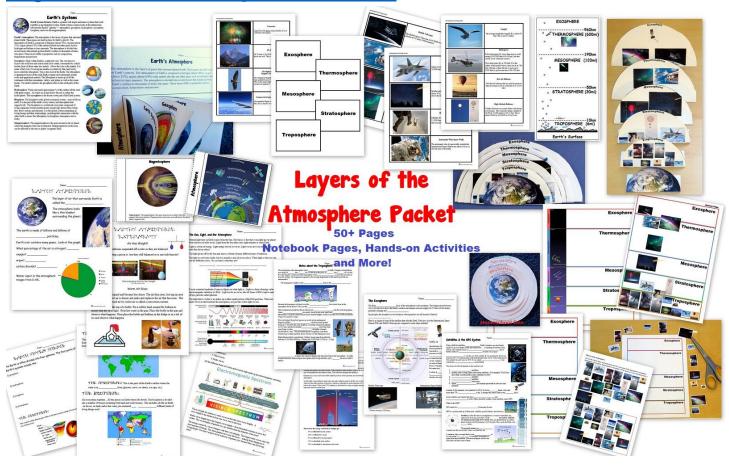


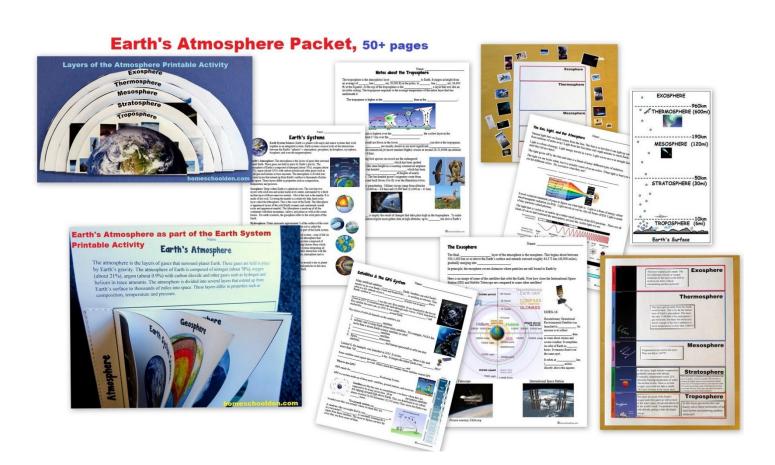


Earth Science: Learning about Earthquake Vibrations



Layers of the Atmosphere Packet

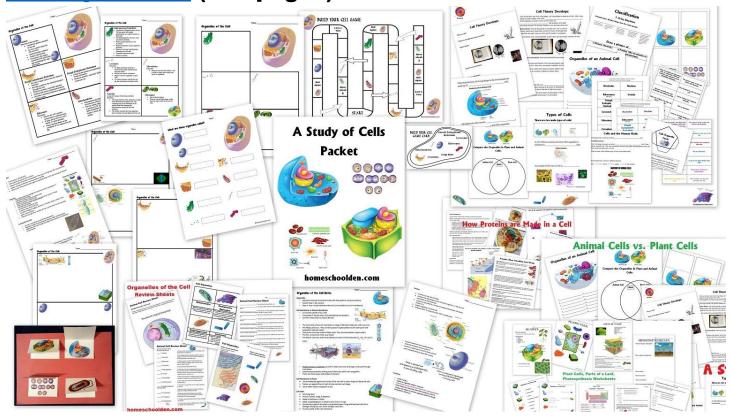


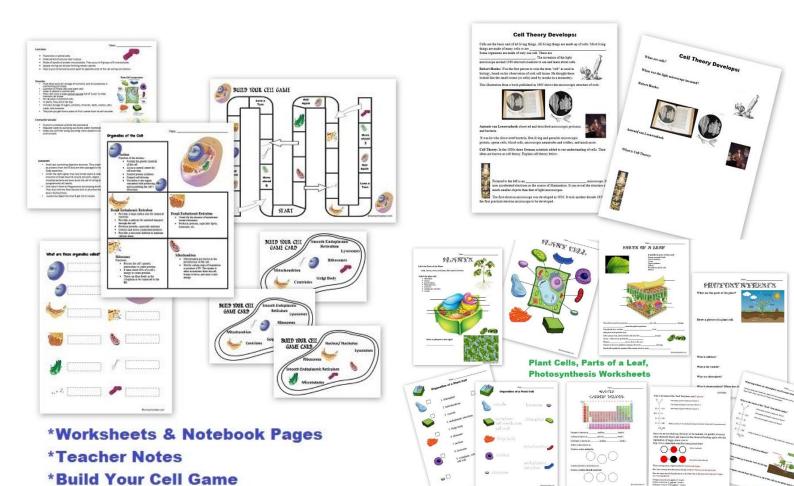


Simple Machines Packet (30 pages)

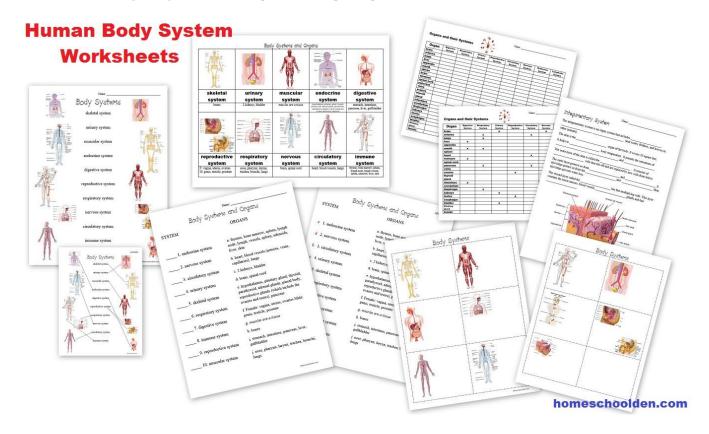


A Study of Cells (100 pages)

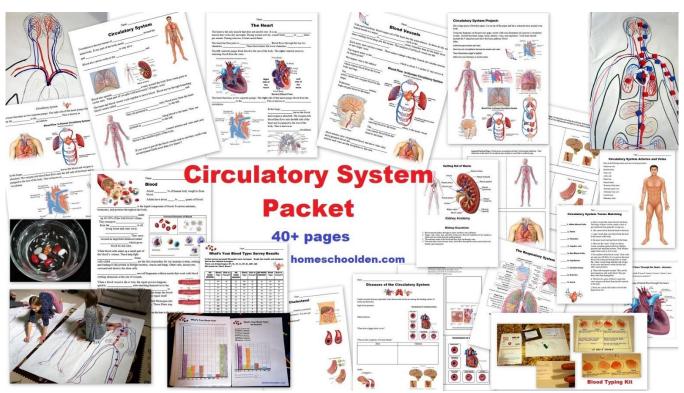




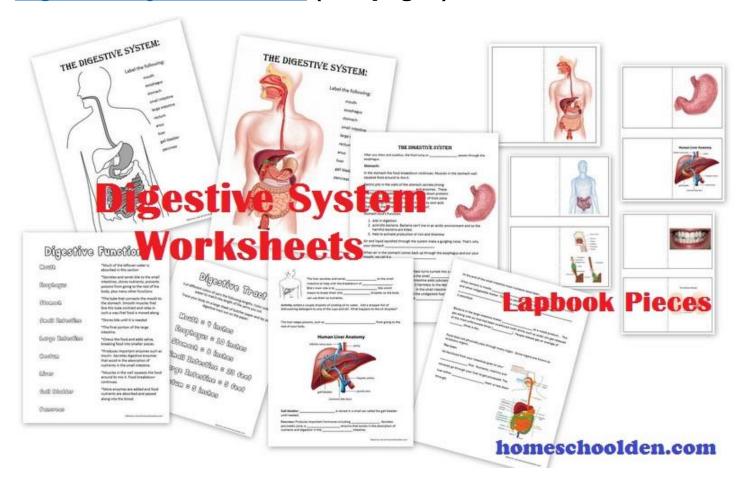
Human Body Systems (25 pages)



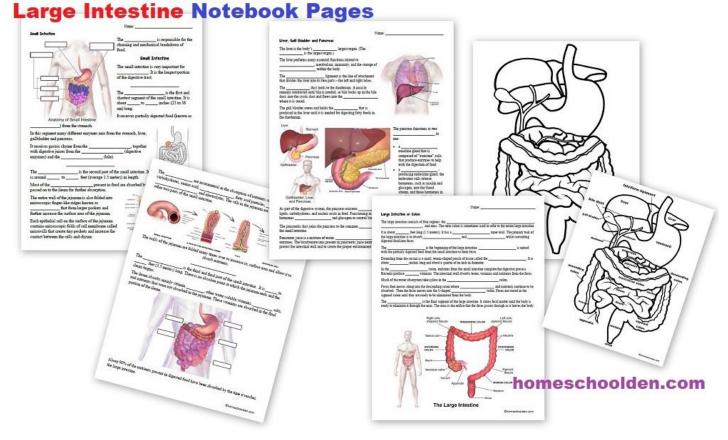
<u>Circulatory Packet</u> (40 pages)



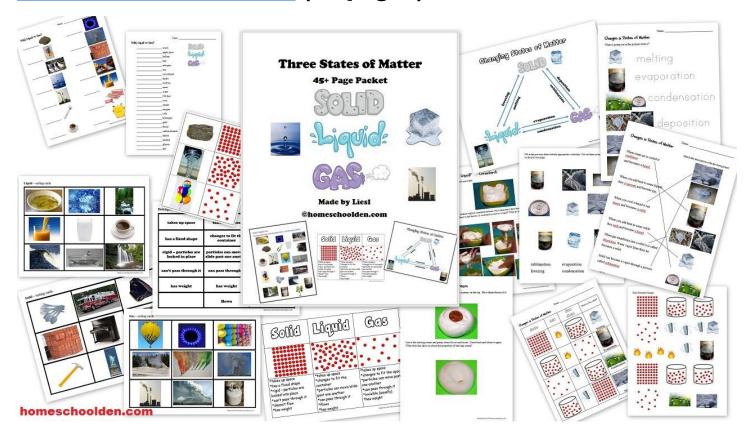
Digestive System Packet (75+ pages)



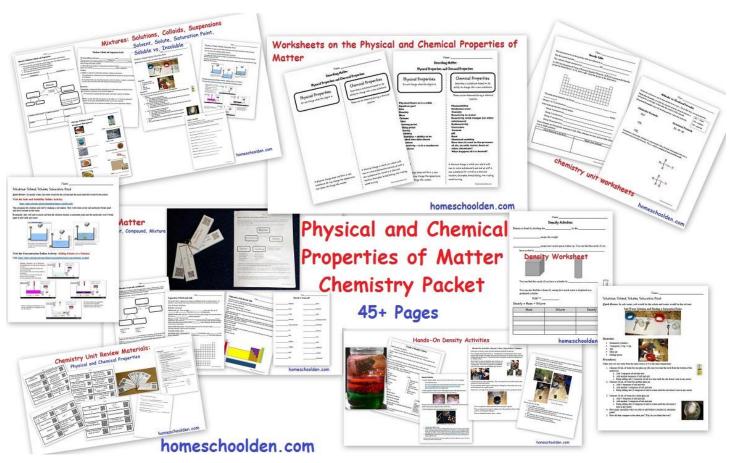
Small Intestine, Liver, Gall Bladder & Pancreas,



States of Matter Packet (50 pages)



Physical and Chemical Properties of Matter (45 pages)



STEM: Electricity and Circuits Unit (30 pages)



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Animal Packet (Vertebrates-Invertebrates, Animal Characteristics and more)





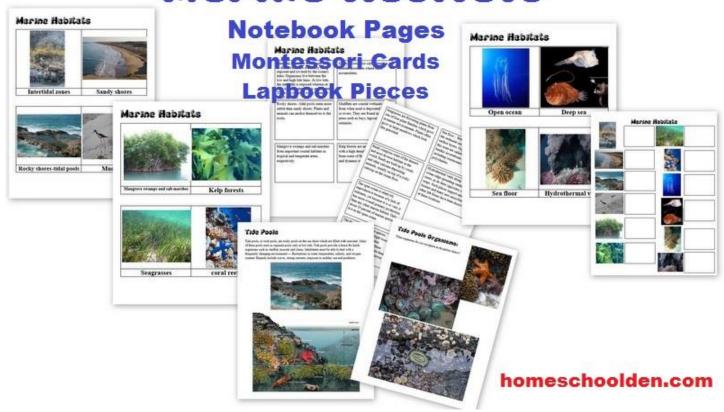
Biology Packet (60+ pages)



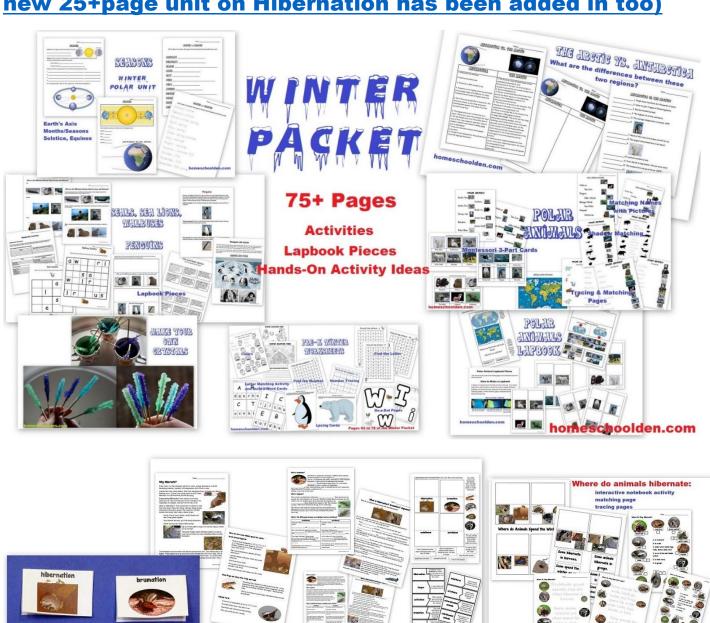
Ocean Packet (65+ pages)

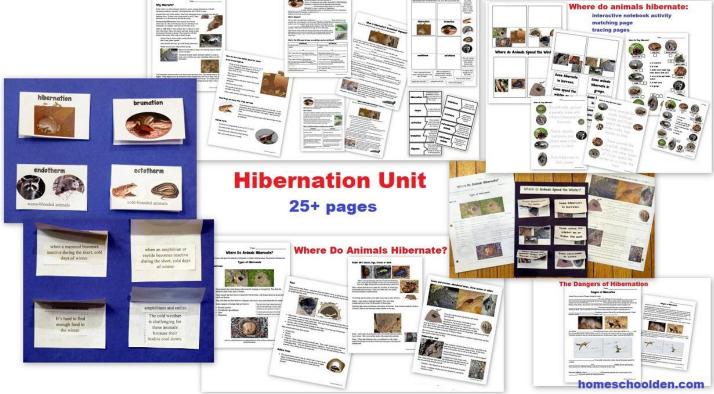


Marine Habitats



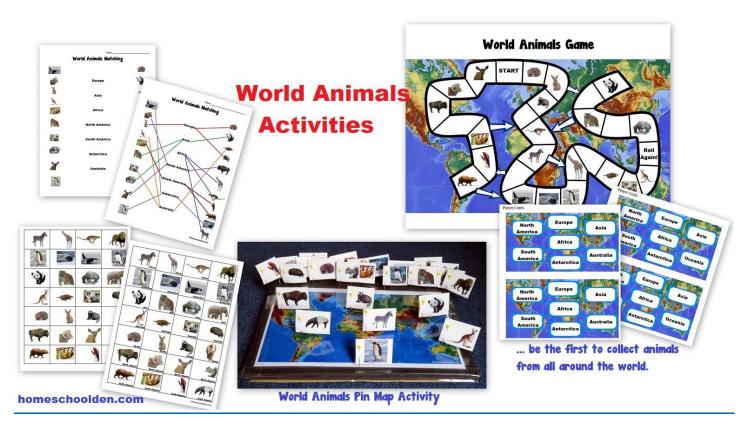
Winter Packet: Earth's Axis/Seasons, The Arctic vs. Antarctica, Polar Animals and More (75+ pages) (plus, the new 25+page unit on Hibernation has been added in too)



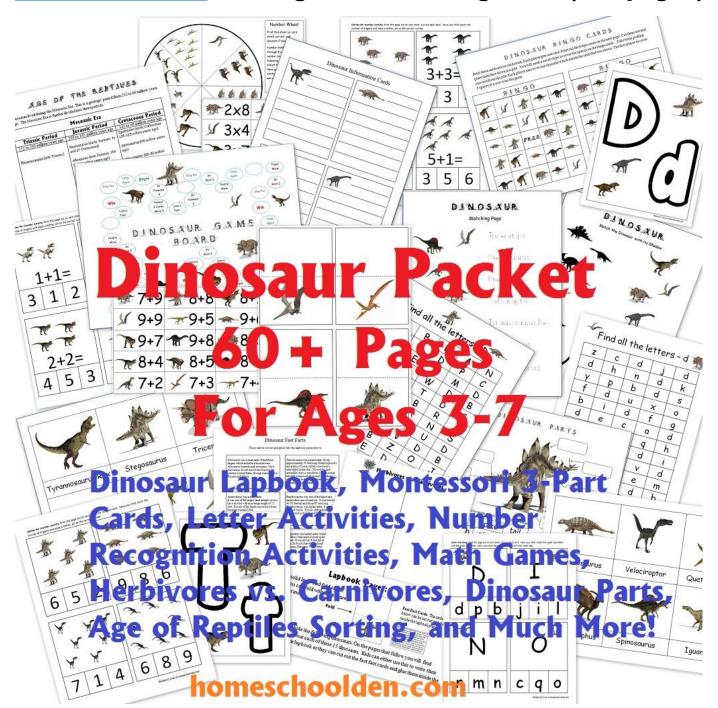


World Animals Packet 60+ page Packet





Dinosaur Packet 60+ Page Packet For ages 3-7 (60+ pages)



Be sure to check out our store for more of our packets!

http://homeschoolden.com/store/

Science: We ♥ love ♥ hands on activities. We have packets on Earth Space Science, Simple Machines, the States of Matter, Electricity and Circuits STEM unit, Cells Unit, Human Body Systems, the Digestive System, the Ocean, World Animals, Animal Characteristics, Dinosaurs and more!!



History



Math - Including place value, addition & subtraction packets and our 175+ page bundle of multiplication packets with games, skip counting activities, multiplication fact worksheets and more (12 pdfs!)





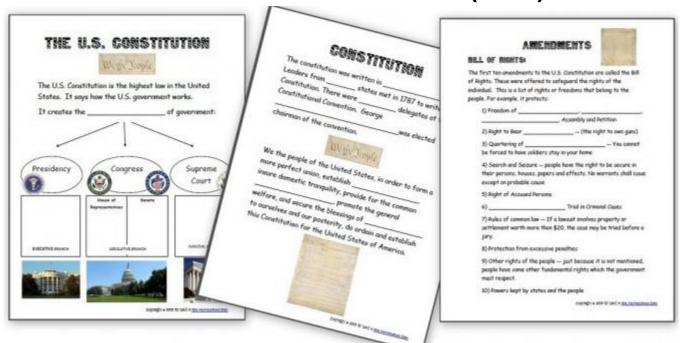


Civics and Government Unit – 3 branches of government – legistlative, judicial & executive branches, the Presidential Cabinet positions, federal vs state governments, and more!





Civics and Government Unit (cont.)

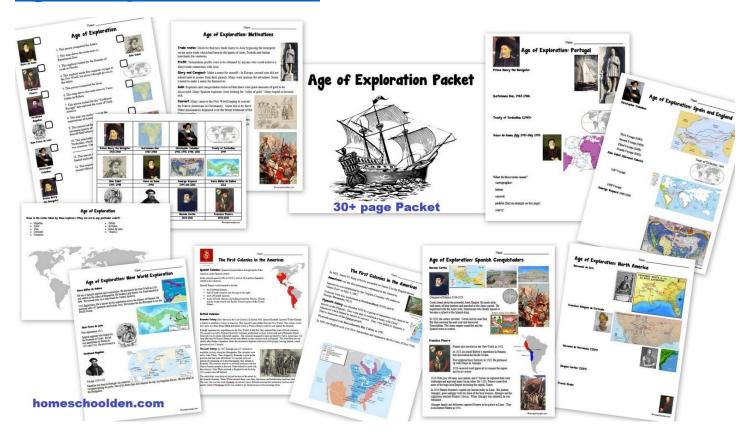




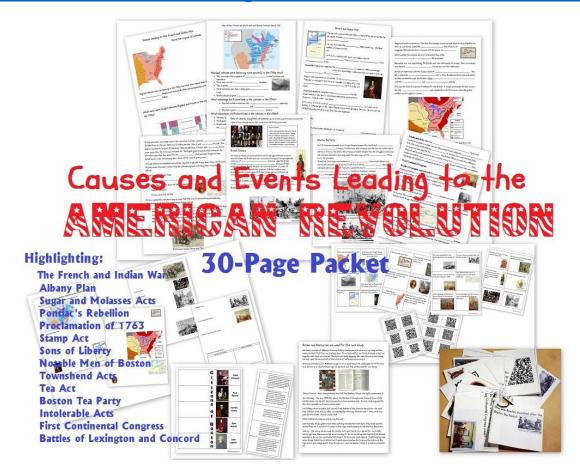
World Facts Packet Do your kids know the 4 largest countries? Which countries have the most people? The longest river? The famous world landmarks? This packet covers basic world and U.S. facts. Part 2 includes geographic features, landform words, deserts of the world, topographic maps and more!



Age of Exploration Packet



Causes and Events Leading the American Revolution Unit



Slavery and the Civil War Unit



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Feudalism Packet



European History Packet 1500-1750



European History Packet 1500-1750 (More details!)

<u>Includes the Renaissance & Reformation, Absolute</u>

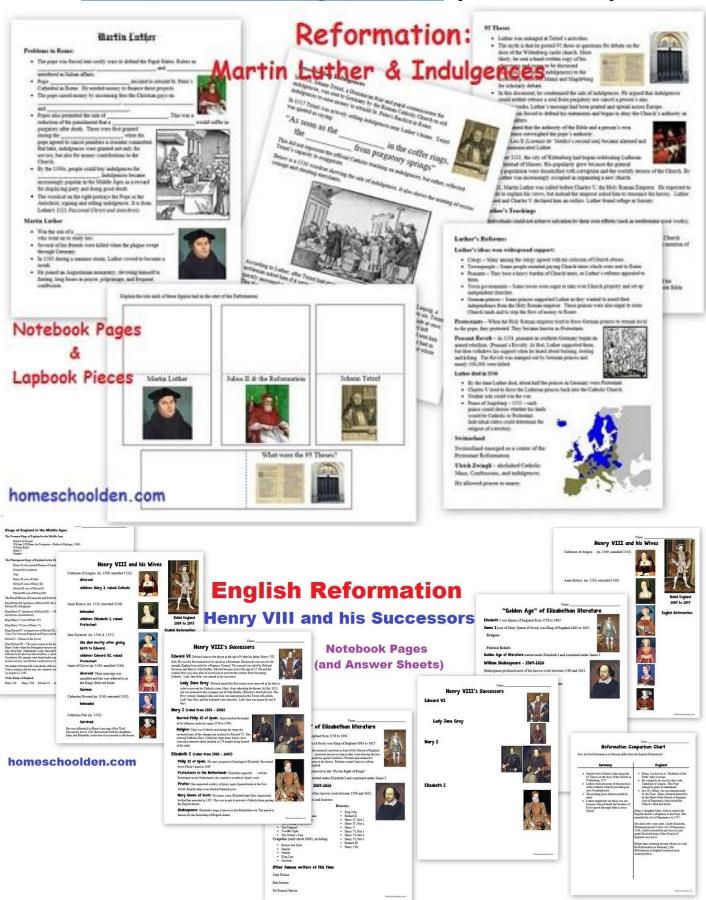
Monarchs, Scientific Revolution and Enlightenment



Renaissance and Reformation Unit



European History Packet (continued)



European History Packet (continued)

