Alignment to the Common Core GPS (CCGPS) and Georgia Performance Standards (GPS) for Grades 3 - 5: Science & Social Studies





Created by Jessie Moreau, M.Ed., NBCT Gwinnett County Public Schools

GDOE PowerPoint on Alignment for 2013-14 is posted on the GAA website. It offers some other valuable information across the grade levels for alignment.

Science Georgia Performance Standards (GPS) Examples



Characteristic of Science

- For all students assessed in Science (grades 3-8 and high school), a Characteristic of Science must be recorded/written on the Science Entry Sheet.
- The Characteristic of Science recorded on the Entry Sheet must be identifiable and documented in the evidence.
- Even if all four assessment tasks submitted for a science entry align and are scorable, if either of the above conditions are not met, the entry is nonscorable.
 - Nonscorable Code of NA-D

Characteristic of Science

Characteristic of Science indicated must be visible in the evidence as part of the student's participation in the process of science. For example:

Uses safety techniques

Including safe use, storage, and disposal of materials must be observed; use of safety techniques must be in evidence

Uses scientific tools

Tools and instruments for observing, measuring, and manipulating scientific equipment and materials; use of tools must be in evidence

Uses technology

Using scientific technology such as a computer program that analyzes data (not just to research info on the web), using a balance to measure, thermometer, etc.

***This does <u>NOT</u> mean assistive technology or instructional technology.

Scientific technology does <u>NOT</u> include using a PowerPoint to view information, using a computer to look up information, or using an electronic whiteboard, etc.

Organizes data into graphs, tables, and charts Places information from scientific inquiry or investigation into a table, chart, or graph format; chart/table/graph must be included in the evidence



Characteristics of Science Standards

3rd Grade 4th Grade 5th Grade

Characteristics of Science	Characteristics of Science	Characteristics of Science
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 Records investigations Analyzes whole number data Measures Makes sketches Compares and describes numerically Researches Uses tools Answers their own questions Communicates findings Understands safety concerns 	 Asks questions that lead to investigations Conducts simple investigations Uses tools for collecting data Uses charts and graphs Uses data to answer questions Writes and uses instructions Understands fairness Justifies reasonable answers Identifies patterns of change Researches for information Understands the importance of safety concerns 	 Records observations Offers and considers reasoning Quantifies data Measures and estimates Uses scientific tools Assembles, describes, takes apart, and reassembles Identifies parts and makes models Describes changes Compares physical attributes Draws and sketches Questions and seeks to find answers Researches for scientific
	information - Replicates investigations - Works safely	



Let's wipe out NA-D Error Codes

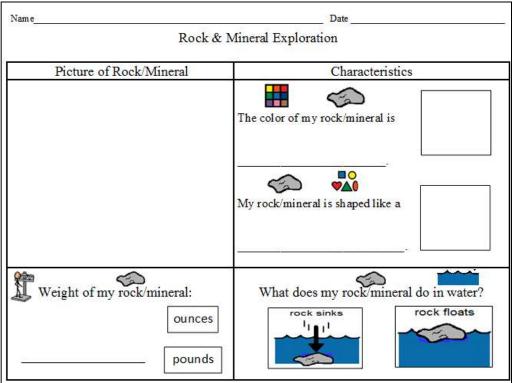


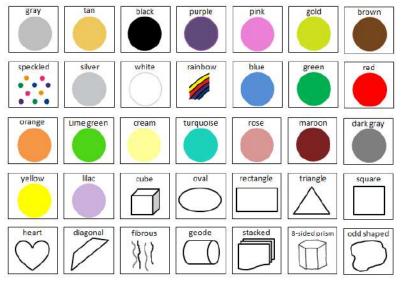
- **S3E1** Students will investigate the physical attributes of rocks and soils.
- b. Recognize the physical attributes of rocks and minerals using observation (shape, color, texture), measurement, and simple tests (hardness).
- c. Use observation to compare the similarities and differences of texture, particle size, and color in top soils (such as clay, loam or potting soil, and sand).

Earth Science (E) 53E1b



Identify the physical attributes of rocks and minerals by color, shape, hardness



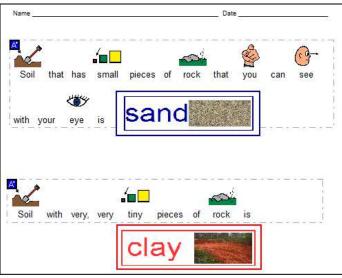




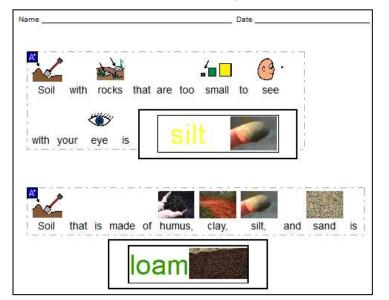
C of S: Records Investigations

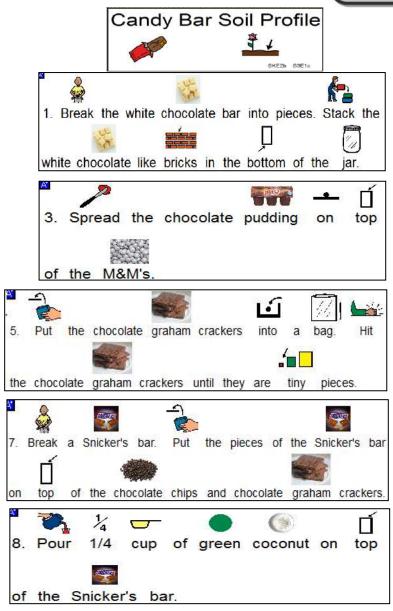
S3E1c





Compare the texture, particle size, and color in top soils



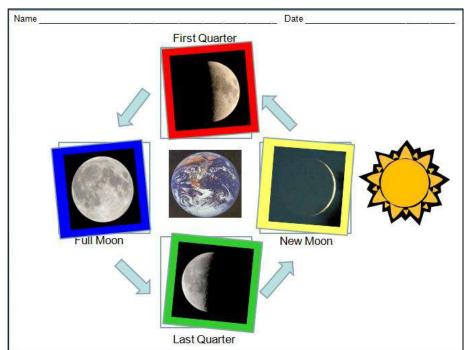


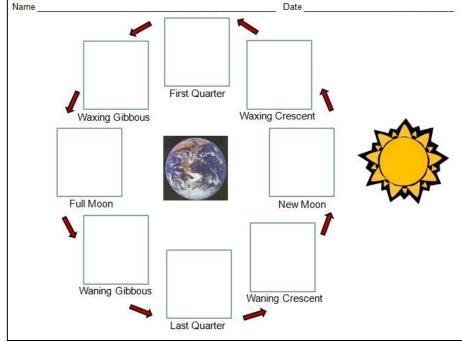


- S4E2 Students will model the position and motion of the earth in the solar system and will explain the role of relative position and motion in determining sequence of the phases of the moon.
- b. Explain the sequence of the phases of the moon.
- d. Demonstrate the relative size and order from the sun of the planets in the solar system.

Earth Science (E) 54E2b







C of S: Uses charts and graphs

Demonstrate the sequence of the phases of the moon using color-coding and matching to printed words.

Earth Science (E) 54E2b



Name date It takes about 29 days for the moon to go through its phases.															
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					•		3. \	3. When will there be a full moon?							

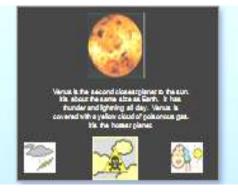
C of S: Uses charts and graphs



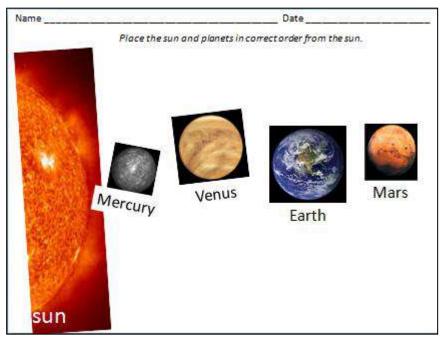












Have students look up in a reference book or magazine or online to research the order of the planets from the sun.

Be sure to document this research!

C of S: Researches for information

Earth Science (E) 54E3a



- S4E3 Students will differentiate between the states of water and how they relate to the water cycle and weather.
- Demonstrate how water changes states from solid (ice) to liquid (water) to gas (water vapor/steam) and changes from gas to liquid to solid.
- d. Explain the water cycle (evaporation, condensation, and precipitation).



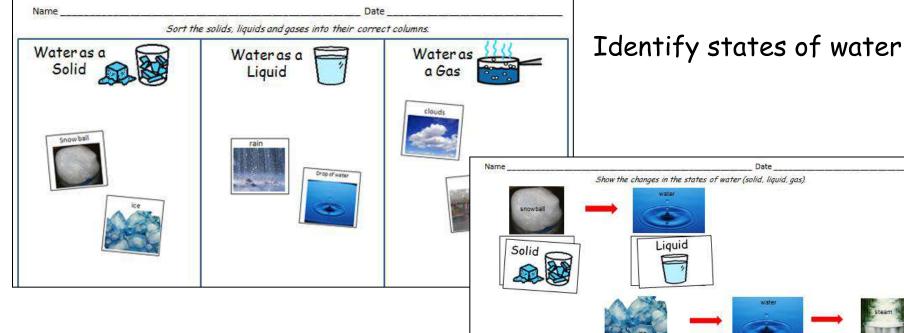
S4E3a - Identify states of water (solid, liquid, gas); and also teach/assess how water changes states



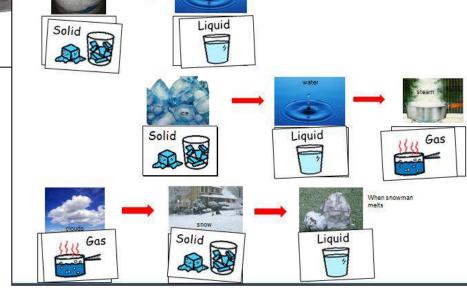
C of S: Uses charts & graphs







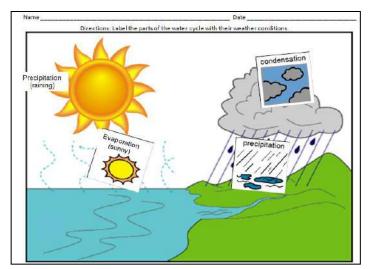
Show how water changes states from solid, to liquid, to gas



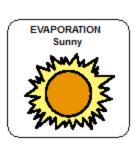
C of S: Identifies patterns of change

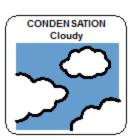
S4E3d

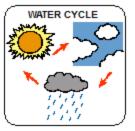




Identify stages of the water cycle

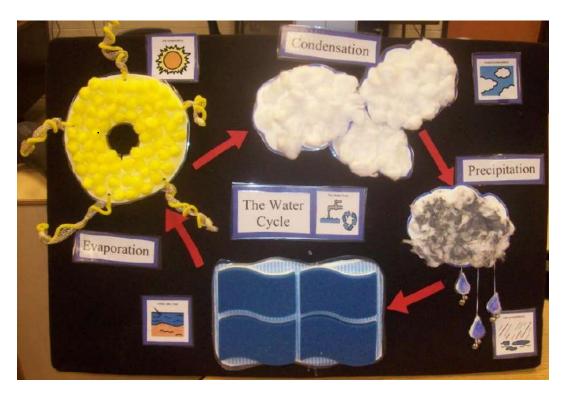








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C of S: Identifies patterns of change

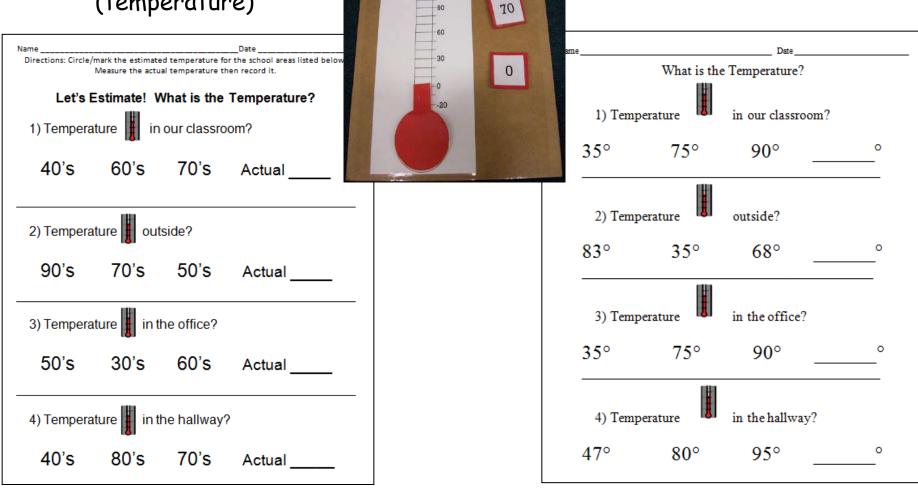


- 54E4 Students will analyze weather charts/maps and collect weather data to predict weather events and infer patterns and seasonal changes.
- c. Use observations and records of weather conditions to predict weather patterns throughout the year.

Earth Science (E) 54E4c



Recording weather conditions (temperature)



C of S: Uses tools for collecting data (real thermometer)



S5E1 - Students will identify surface features of the Earth caused by constructive and destructive processes.

- b. Identify and find examples of surface features caused by destructive processes.
- Erosion (water-rivers and oceans, wind)
- Weathering
- Impact of organisms
- Earthquake
- · Volcano

S5E1b

When a volcano erupts, black smoke and lava come out destroying everything in its path.

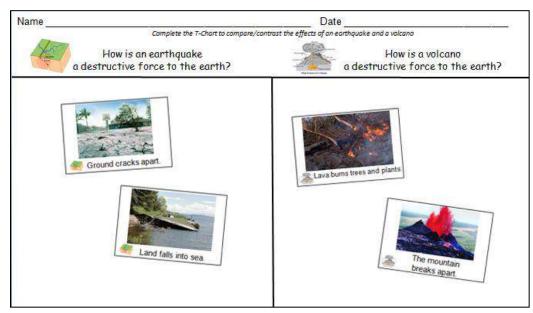




The air is not safe to breath because of the black smoke.

That's a destructive force of nature.



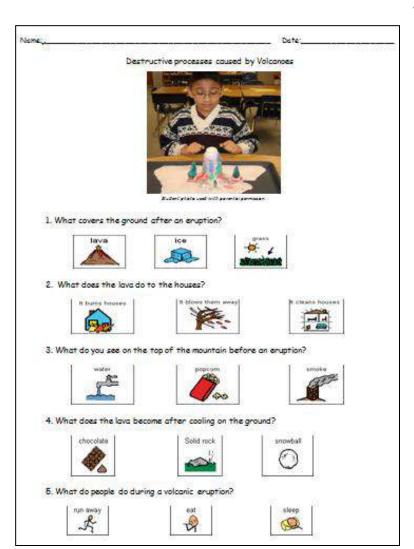


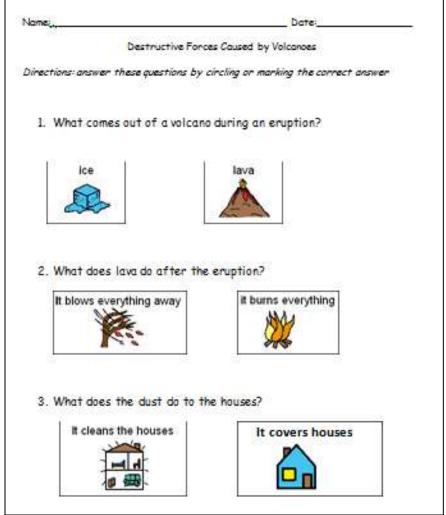
Identify and compare the destructive forces of an earthquake and a volcano.

C of S: Compares physical attributes.

Earth Science (E) 55F1b







C of S: Questions and seeks to find answers

(Document how the student searched to find the answers to the questions)



- **S3L1** Students will investigate the habitats of different organisms and the dependence of organisms on their habitat.
- a. Differentiate between habitats of Georgia (mountains, marsh/swamp, coast, Piedmont, Atlantic Ocean) and the organisms that live there.

S3L2a

Identify Georgia
habitats and
the organisms that
live in them





















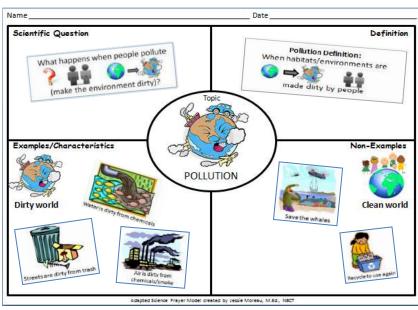


- **S3L2** Students will recognize the effects of pollution and humans on the environment.
- a. Explain the effects of pollution (such as littering) to the habitats of plants and animals.
- b. Identify ways to protect the environment.
 - Conservation of resources
 - Recycling of materials

Life Science (L) 53L2a







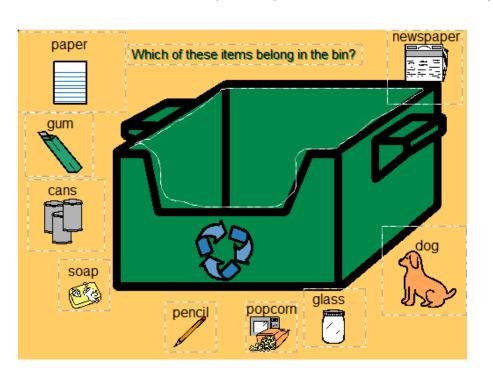
Using the adapted Frayer Model to show effects of pollution on humans and the environment

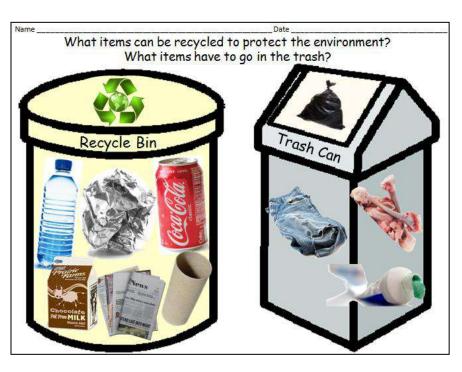
C of S: Answers their own questions

Life Science (L) 53L2b



Recycling of materials to protect the environment





For real life application, actually do a recycling project in your school or student recycles at home.

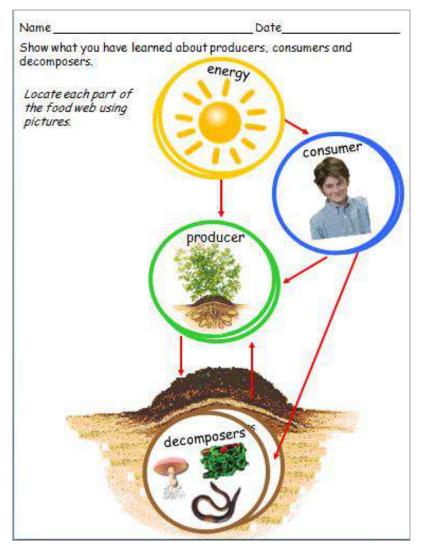
C of S: Answers their own questions

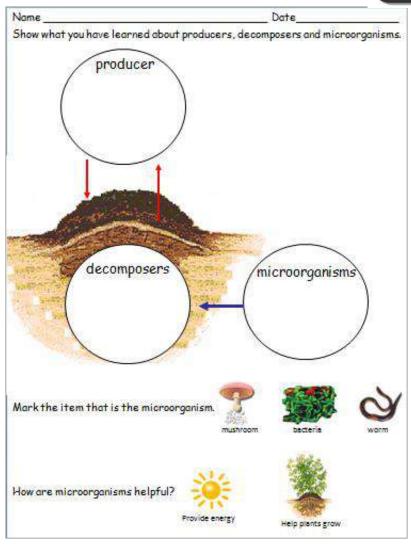


- **S4L1** Students will describe the roles of organisms and the flow of energy within an ecosystem.
- a. Identify the roles of producers, consumers, and decomposers in a community.
- b. Demonstrate the flow of energy through a food web/food chain beginning with sunlight and including producers, consumers, and decomposers.
- S5L4 Students will relate how microorganisms benefit or harm larger organisms.
- a. Identify beneficial microorganisms and explain why they are beneficial.

S4L1a,b; S5L4a







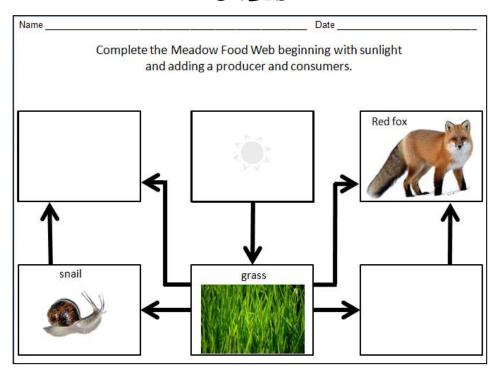
Using character from "How to Eat Fried Worms" to create food webs and producers/consumers/decomposers and microorganisms materials

S4L1a,b; S5L4a



Using characters from "Stone Fox" to create food web w/ microorganisms

S4L1b

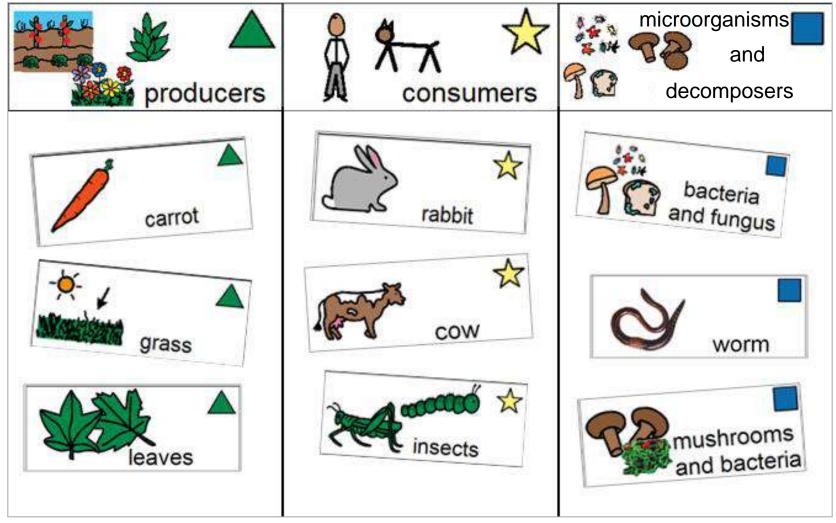


Demonstrate the flow of energy in food web beginning with sun, then including the producer (grass) and consumers

4th Grade C of S: Uses Charts & Graphs

S4L1a,b; S5L4a

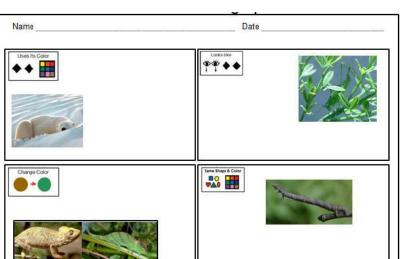




4th **Grade** Character of Science: **Uses charts and graphs**



- **S4L2** Students will identify factors that affect the survival or extinction of organisms such as adaptation, variation of behaviors (hibernation), and external features (camouflage and protection).
- a. Identify external features of organisms that allow them to survive or reproduce better than organisms that do not have these features (for example: camouflage, use of hibernation, protection, etc.).

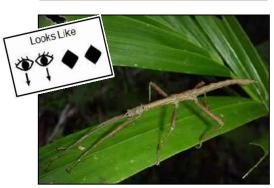


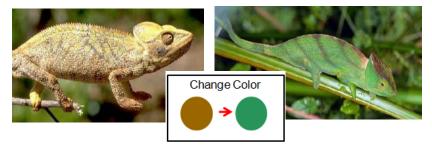
S4L2a

Use of camouflage for survival

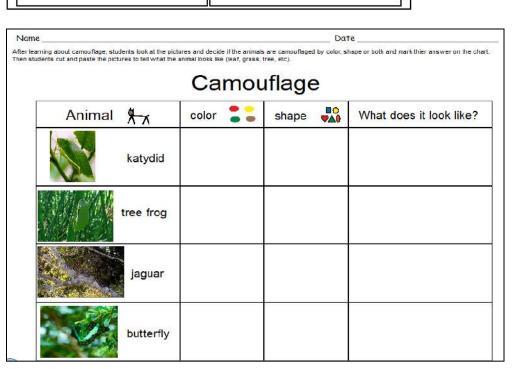








C of S: Uses charts & graphs.





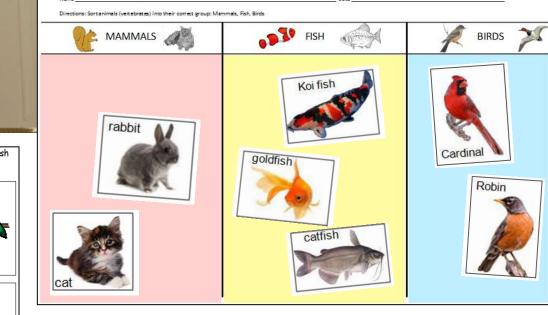
- S5L1 Students will classify organisms into groups and relate how they determined the groups with how and why scientists use classification.
- a. Demonstrate how animals are sorted into groups (vertebrate and invertebrate) and how vertebrates are sorted into groups (fish, amphibian, reptile, bird, and mammal).

S5L1a.





Sorting vertebrates into groups (fish, amphibian, reptile, bird, and mammal).



C of S: Compares physical attributes (Sort according to fur, feathers, scales)

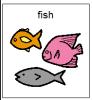
Cut out and use across the top to chart mammals, reptiles, amphibians, bird, and fish and their characteristics.













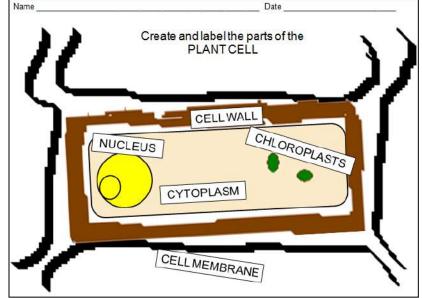




- **S5L3** Students will diagram and label parts of various cells (plant, animal, single-celled, multi-celled).
- b. Identify parts of a plant cell (membrane, wall, cytoplasm, nucleus, chloroplasts) and of an animal cell (membrane, cytoplasm, and nucleus) and determine the function of the parts.



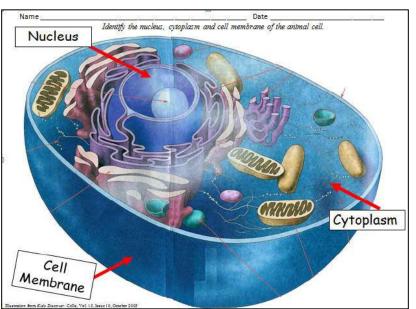


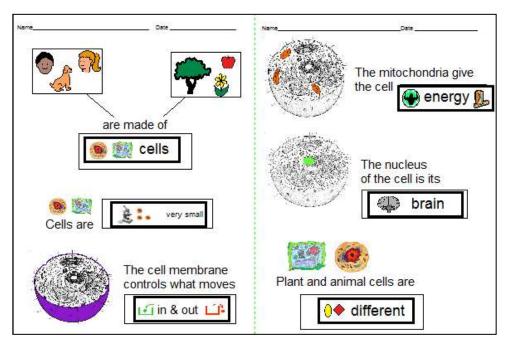


C of S: Identifies parts and makes models

Labeling the parts of plant & animal cells

Making a model of a plant cell





Characteristics of Science Standards

3rd Grade 4th Grade 5th Grade

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Let's wipe out		information - Replicates investigations - Works safely



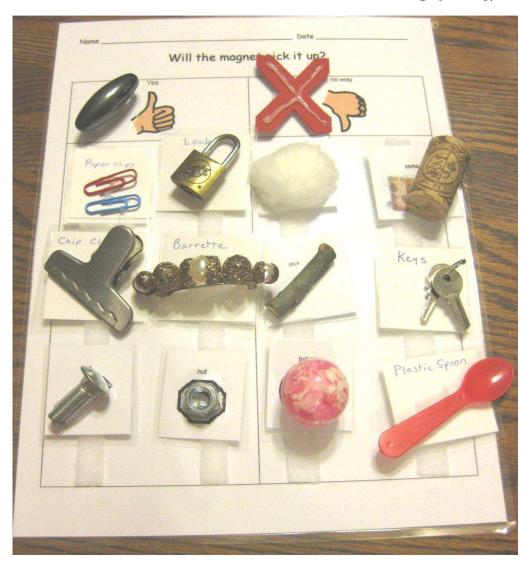
Let's wipe out NA-D Error Codes



- S3P2 Students will investigate magnets and how they affect other magnets and common objects.
- a. Investigate to find common objects that are attracted to magnets.

53P2a





C of S: Records investigations

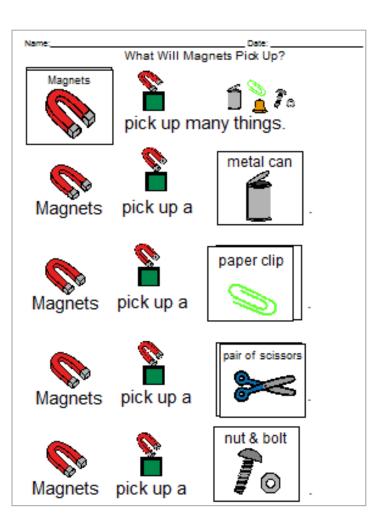


C of S: Communicates findings of common items that are attracted or not attracted to magnets using AAC

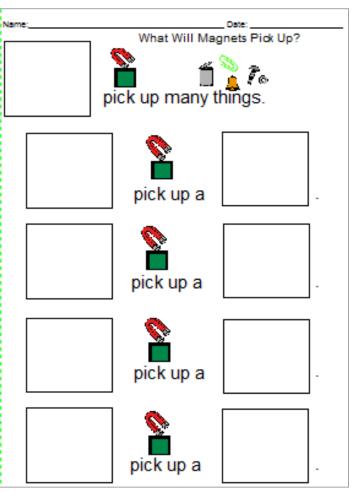


Physical Science (P) 53P2a





C of S: Communicates findings



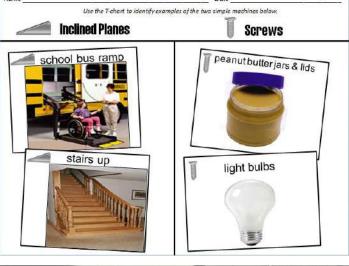
After completing activities to find which items attract to magnets, students write a report to communicate their findings.



- **S4P3** Students will demonstrate the relationship between the application of a force and the resulting change in position and motion on an object.
- a. Identify simple machines and explain their uses (lever, pulley, wedge, inclined plane, screw, wheel and axle).

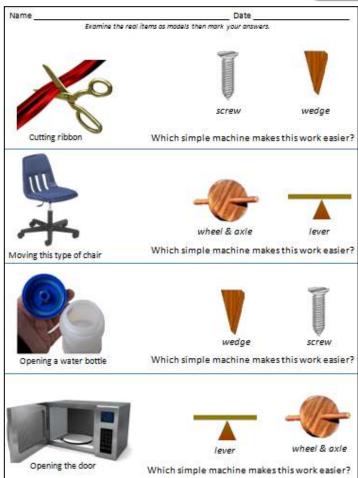








C of S: Uses charts & graphs



C of S: Conducts simple investigations

(Student must use the real items In order to conduct their investigation)



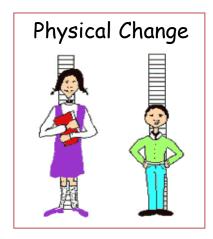
- S5P2 Students will explain the difference between a physical change and a chemical change.
- a. Investigate <u>physical</u> changes by <u>separating mixtures</u> and <u>manipulating</u> (cutting, tearing, folding) paper to demonstrate examples of physical change.

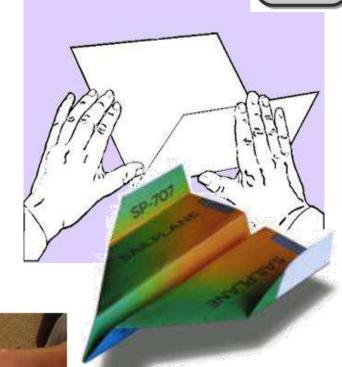
**All 4 pieces of evidence must focus on the same skill – either only separating mixtures or only manipulating paper OR

If you want to include both, then you will need activities that include both types of skills for each of the 4 pieces of evidence.



S5P2a





We can tear paper!





Tearing and folding paper to show a physical change with paper.

Separating coins & nut mixtures then identifying as a physical change

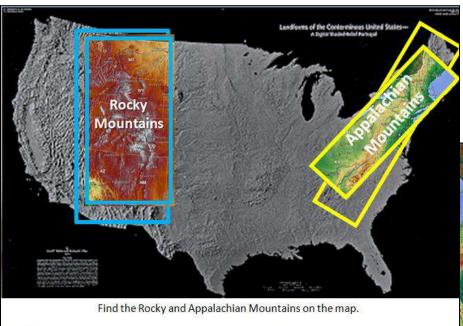
Social Studies Georgia Performance Standards (GPS) Examples





- **SS3G1** The student will locate major topographical features of the United States of America.
- b. Identify major mountain ranges of the United States of America: Appalachian, Rocky.
- **SS4G1** The student will be able to locate important physical and man-made features in the United States.
- a. Locate major physical features of the United States; include the Atlantic Coastal Plain, the Great Plains, The Continental Divide, the Great Basin, Death Valley, the Gulf of Mexico, the St. Lawrence River, and the Great Lakes
- b. Locate major man-made features; include New York City, NY; Boston, MA; Philadelphia, PA; and the Erie Canal.
- **SS5G1** The student will locate important places in the United States.
- a. Locate important physical features; include the Grand Canyon,
 Salton Sea, Great Salt Lake, and Mojave Desert.



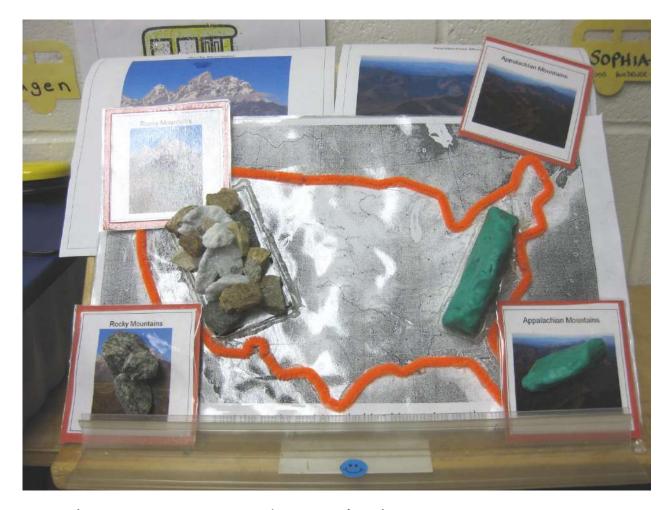


Locate the Rocky Mountain and Appalachian Mountain ranges

When it says, "locate or identify" then all 4 pieces of evidence must include maps.



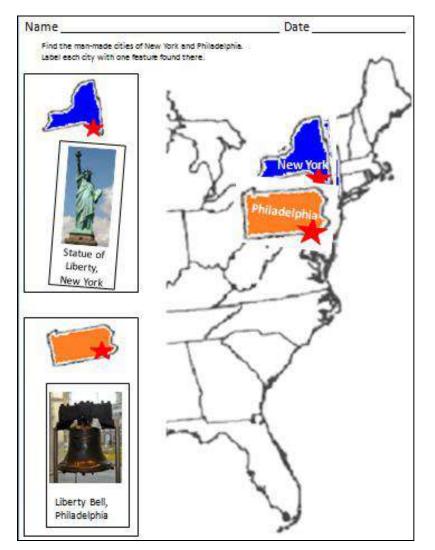


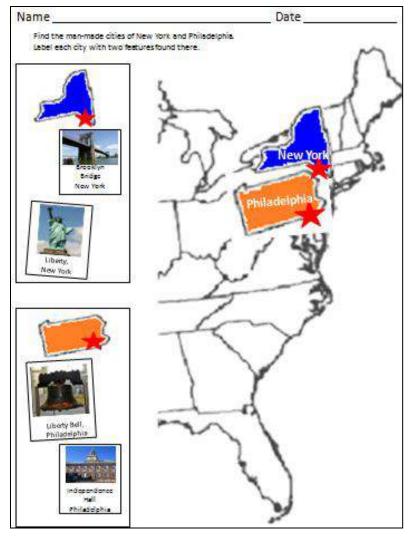


Locate the Rocky Mountain and Appalachian Mountain ranges and 1 fact about each on the tactilized map



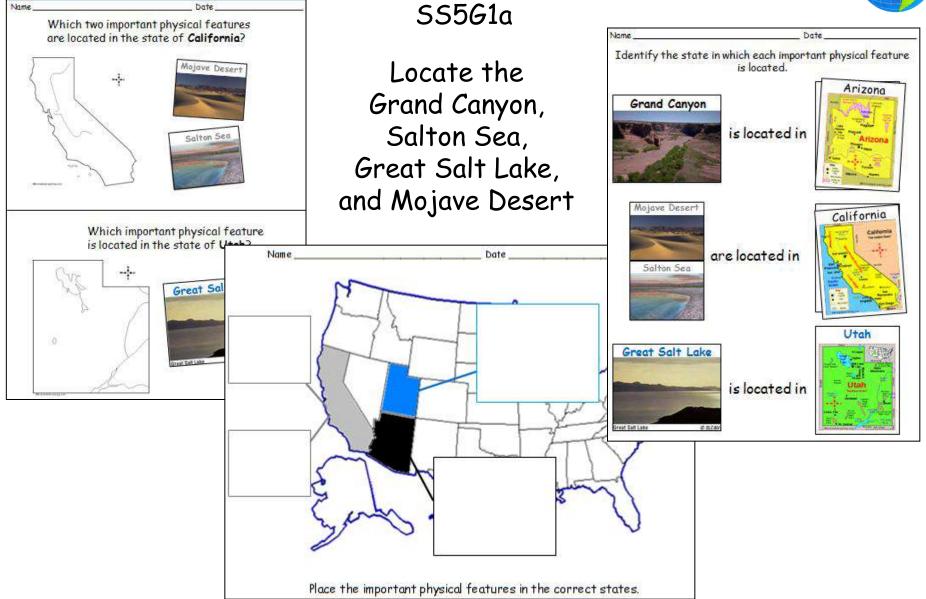
SS4G1b





Locate cities & man-made features in New York City, Philadelphia







SS5G1a





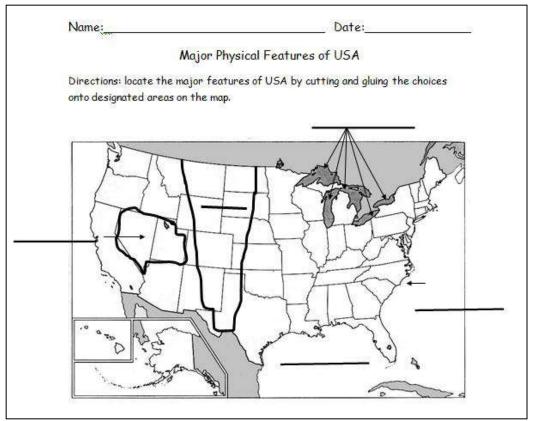


AAC
device to
respond
to tell the
locations
on the map

Using tactile markers to match to locate the Grand Canyon, Salton Sea, Great Salt Lake, and Mojave Desert

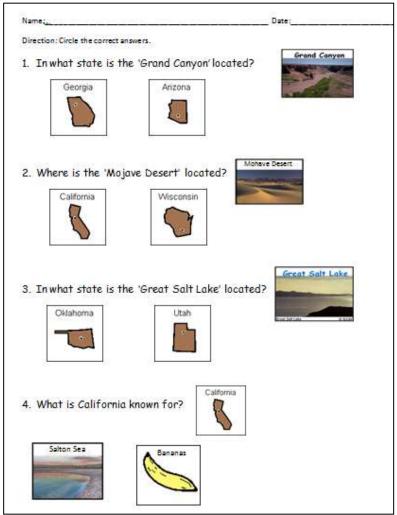


554G1a



Locating physical features across the United States

SS5G1a

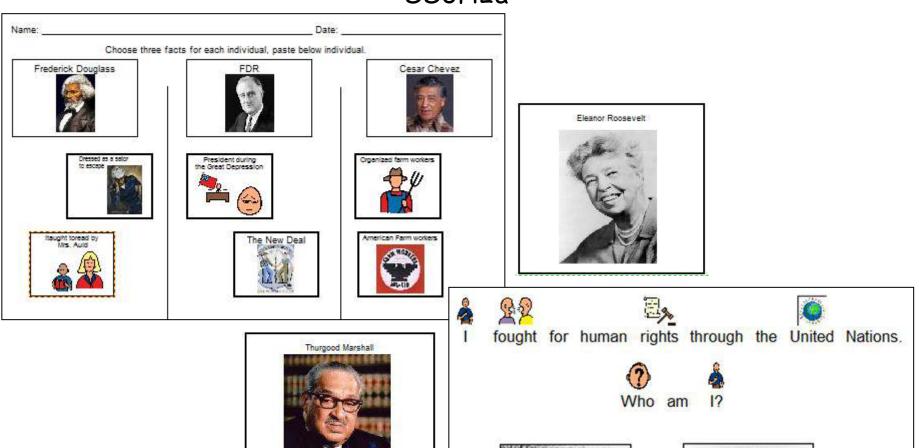




- SS3H2 The student will discuss the lives of Americans who expanded people's rights and freedoms in a democracy.
- a. Paul Revere (independence), Frederick Douglass (civil rights), Susan B. Anthony (women's rights), Mary McLeod Bethune (education), Franklin D. Roosevelt (New Deal and World War II), Eleanor Roosevelt (United Nations and human rights), Thurgood Marshall (civil rights), Lyndon B. Johnson (Great Society and voting rights), and César Chávez (workers' rights).



553H2a



Americans who have expanded rights & freedoms



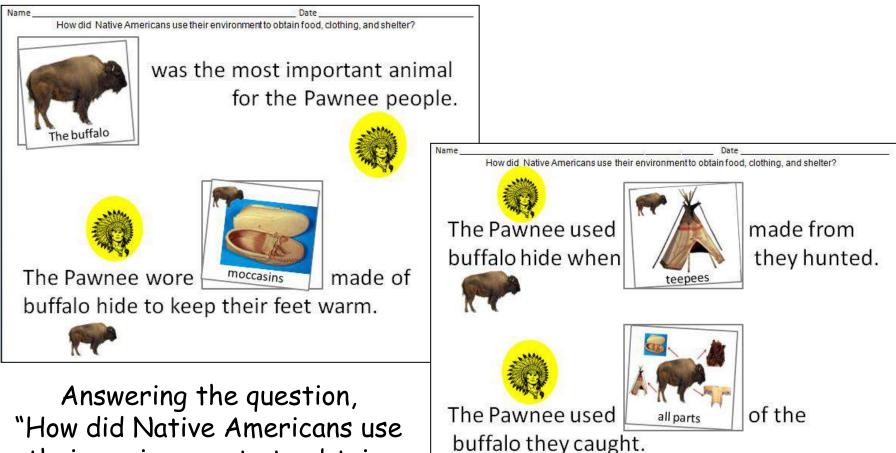
Paul Revere Eleanor Roosevelt



- **SS4H1** The student will describe how early Native American cultures developed in North America.
- b. Describe how Native Americans used their environment to obtain food, clothing, and shelter.



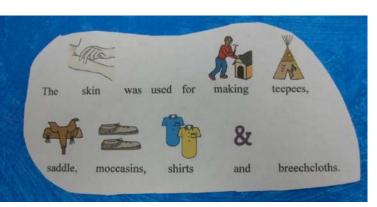
SS4H1b



"How did Native Americans use their environments to obtain, food, clothing and shelter" with focus on the buffalo.

Social Studies: History (H) 554H1b









Using tactile items and preprinted picture sentences to identify uses of a buffalo



- SS4H3 The student will explain the factors that shaped British colonial America.
- (a) Compare and Contrast life in New England, Mid Atlantic and Southern Colonies.

Social Studies: History (H) 554H3a









- The New England Colonists taught children to read. Only boys were allowed to go to grammar school and college; girls were not allowed to go to school.
- Middle Colonists had private schools based on their religion. Girls were not allowed to attend unless they were Quakers.

Compare and Contrast life in

New England, Mid-Atlantic

and Southern Colonies.

 Southern Colonists were taught at home by private tutors. When they became teenagers, they went to college or sent to Europe. Girls were not allowed to go to school.





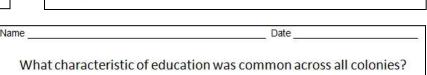
 The New England colonists were largely <u>Puritans</u>, who led very strict lives.



The Middle colonists were a mixture of religions, including Quakers (led by William Penn), Catholics, Lutherans, Jews, and others.



The Southern colonists had a mixture of religions as well, including Baptists and Anglicans.





Only boys went to school



Students had private tutors



Boys went to Europe for college

Which of the following religions was widespread across New England?



Baptist



Puritans



Catholic



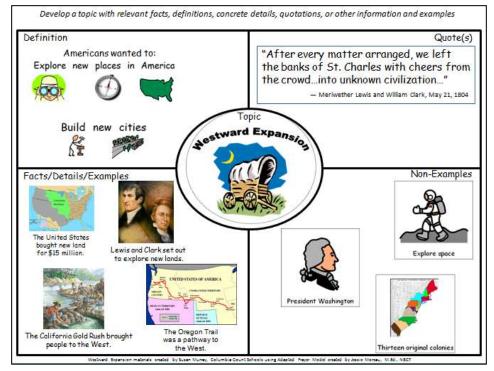
- **SS4H6:** The student will explain westward expansion of America between 1801 and 1861.
- a. Describe territorial expansion with emphasis on the Louisiana Purchase, the Lewis and Clark expedition, and the acquisitions of Texas (the Alamo and independence), Oregon (Oregon Trail), and California (Gold Rush and the development of mining towns).





SS4H6a

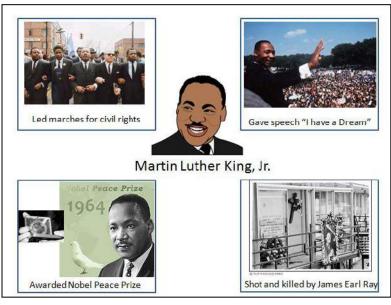
Using pictures and pre-printed descriptions to give details about the Louisiana Purchase, the Lewis and Clark expedition, and the acquisitions of Texas, Oregon Trail, and the California Gold Rush

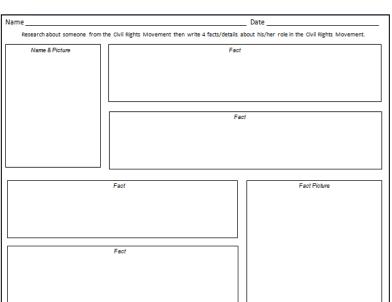




- SS5H8 The student will describe the importance of key people, events, and developments between 1950-1975.
- b. Explain the key events and people of the Civil Rights movement; include Brown v. Board of Education (1954), Montgomery Bus Boycott, the March on Washington, Civil Rights Act, Voting Rights Act, and civil rights activities of Thurgood Marshall, Rosa Parks, and Martin Luther King, Jr.

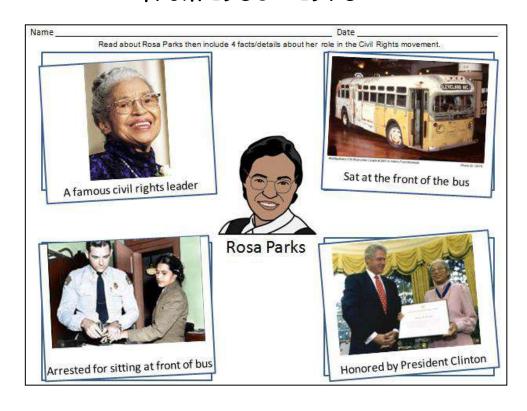






SS5H8b

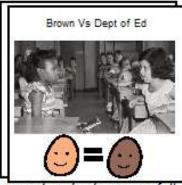
Civil Rights Leaders from 1950 - 1975



Works for Social Studies, Informational Text, and Informative Writing



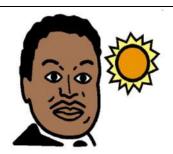
SS5H8b



Thurgood worked successfully to end segregation when he took the case, Brown vs Department of Education in Topeka, Kansas,



Thurgood Marshall became the first African American judge appointed to the Supreme Court.



Every January we have a holiday to help us remember Martin and his dream. It is called "Martin Luther King Day".

Brown v. Board of Education

 This ruling was important for all African Americans. This ruling helped start African Americans on the road to civil rights.

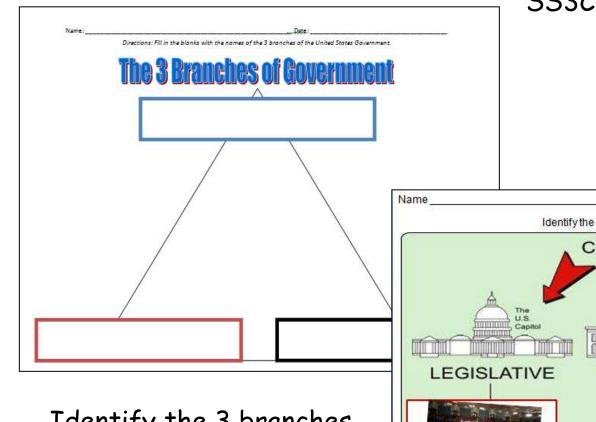




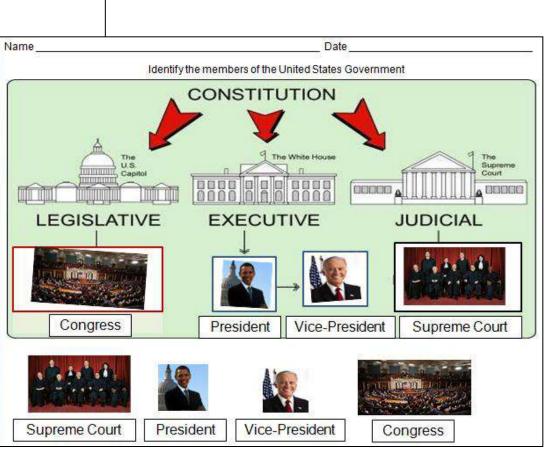
- SS3CG1 The student will explain the importance of the basic principles that provide the foundation of a republican form of government.
- b. Name the 3 levels of government (national, state, local) and the 3 branches of government in each (executive, legislative, and judicial), including the names of the legislative branch (Congress, General Assembly, county commission, or city council.)



SS3CG1b



Identify the 3 branches of the United States Government





- **SS5CG1** The student will explain how a citizen's rights are protected under the U.S. Constitution.
- b. Explain the freedoms granted by the Bill of Rights



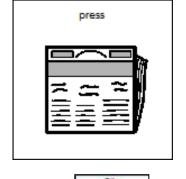
SS5CG1b

Name ______ Date _____



The Bill of Rights Promises Us Freedoms:

Freedom of the Press





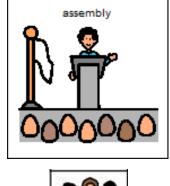
Freedom of Religion





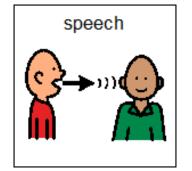


Freedom of Assembly





Freedom of Speech









- 553E3 The student will give examples of interdependence and trade and will explain how voluntary exchange benefits both parties
- a. Describe the interdependence of consumers and producers of goods and services.
- c. Explain that <u>some things are made locally</u>, some elsewhere in the country, and some in other countries.





SS3E3a

The farmer in the jeans, the farmer in the jeans. this is how the cycle goes, the farmer in the jeans.

Using music to teach the interdependence of producers and consumers



The farmer grows the crop.
There's cotton in the fields.
This is how the cycle goes,
the farmer grows the crop.

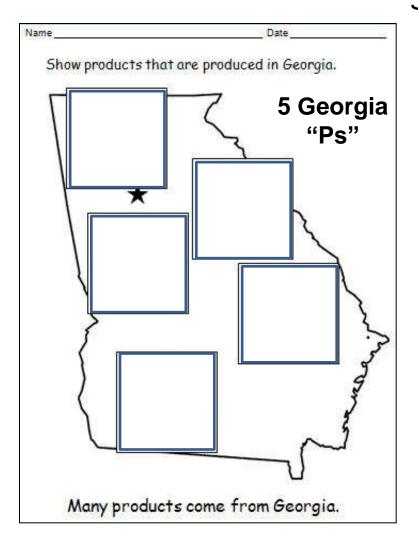


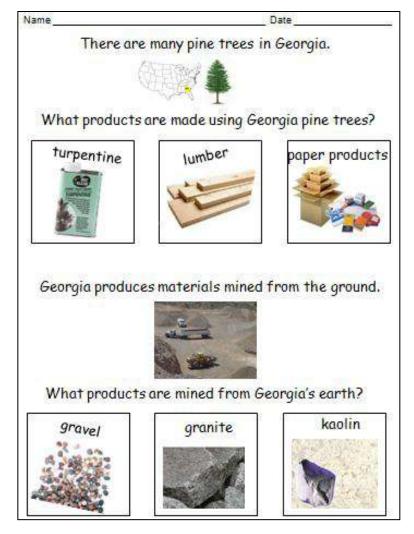


What happens next?



553E3c





Georgia grown and produced - things made locally



SS3E3c

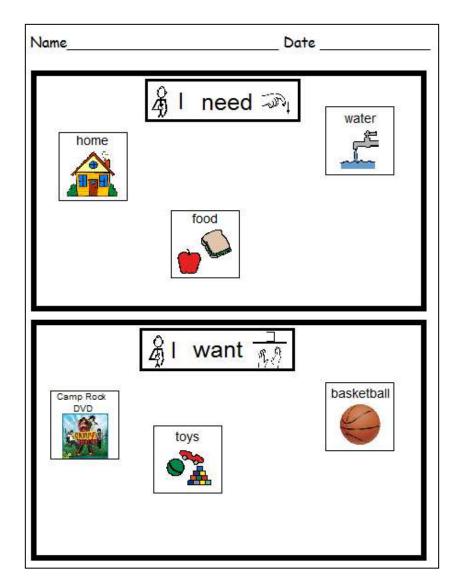


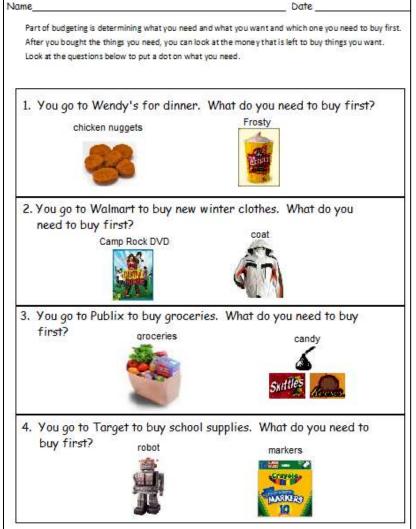
Georgia grown and produced - things made locally



- SS3E4 The student will describe the costs and benefits of personal spending and saving choices
- SS4E2, SS5E4 The student will identify the elements of a personal budget and explain why personal spending and saving decisions are important.







Budgeting based upon needs and wants.





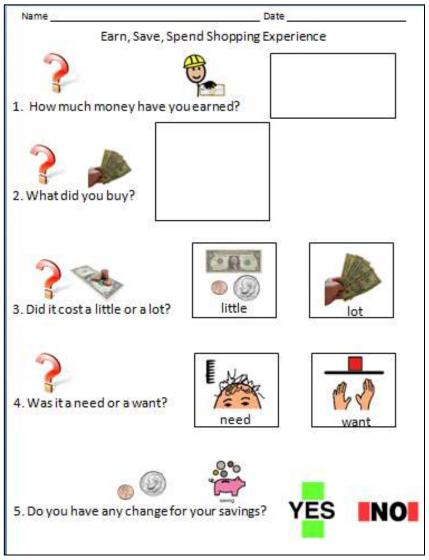
Using realistic money to determine if enough in budget to make purchase

Determining needs and wants with pictures of real age appropriate items





Name:		//a	/ <i>i</i> le:
		, SPEND ACCOUN	
Amount Ear] ned:		
Amount Ear	+ ned:		
Total Earni	= ings:		
Purchase an) – nount:		E8/M8 activities: place label or picture of tem purchased here.
	=		
iotal Saving	S		

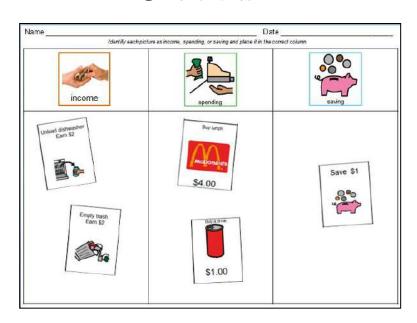


Making purchases and/or going shopping for real life application.



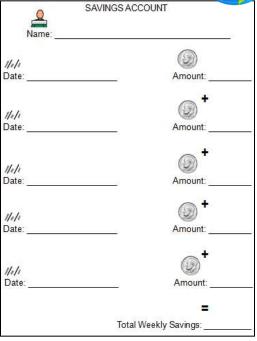


Making Spending & Saving Decisions





- Using stickers to write money amounts earned
- Counting earnings using a jig
- Interaction in another setting (cafeteria)
- Interaction with volunteer to purchase ice cream









Saving & Spending activities created by Jessie Moreau, Gwinnett County Public Schools