

Mrs. Murray's Fourth Grade Science

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Virginia Natural Resources Study Guide SOL 4.8

The student will investigate and understand important Virginia natural resources. Key concepts include a) watershed and water resources; b) animals and plants; c) minerals, rocks, ores, and energy sources; and d) forest, soil, and land.

Vocabulary:

- 1. resource something we need, want, and use (example: water, food)
- 2. <u>natural resource</u> a resource that comes from the earth (made by nature) (example: tree, soil, water,

plants, animals, sun) It helps support life on earth

- cultivated resource a resource created by man (example: planting trees)(man-made)
- 4. renewable resource a resource that can be replaced in a short period of time
- 5. non-renewable resource a resource that cannot be replaced in a short period of time
- 6. <u>agriculture</u> farming/raising (example: corn, pigs) Virginia's largest industry
- 7. arable good (as in soil), fertile
- 8. aggregates rocks
- 9. ecosystem living and nonliving things in an environment and all their interactions
- 10. niche the role of an animal/plant in its environment
- 11. <u>extinct species</u> animals/plants that have died out/ no more species of that kind are on earth
- 12. endangered species animals/plants that are very close to becoming extinct/ only a few left

- 13. <u>threatened species</u> animals/plants likely to become endangered/extinct
- 14. exotic species a plant/animal new to an area
- 15. over-harvesting taking more plants/animals than the population can withstand
- **16.** <u>habitat loss</u> animals/plants losing their homes (caused by pollution, destroying homes, over hunting)
- **17**. <u>watershed</u> an area of land where all water (H20) under it or draining off of it goes into a common body of water
- 18. <u>aquatic</u> having to do with plants/animals in the water
- 19. precipitation water to the earth in the form of rain, snow, sleet, hail
- **20.** <u>drought</u> caused by below average precipitation (not enough water)
- 21. flood too much water
- 22. <u>estuary</u> a place where fresh water and salt water mixes
- 23. <u>hydropower</u> electrical power produced when water is captured at a dam or created by falling water
- 24. reservoir a human-made lake that stores water held back by a dam
- 25. surface water water within the earth that supplies wells and springs
- 26. groundwater water that comes from the ground
- 27. sediment material, such as stones and sand, deposited by water
- 28. mineral a naturally occurring substance, neither plant nor animal
- 29. ore a mineral containing a useful substance that is mined from Earth
- 30. conservation the act of saving, protecting, or using resources wisely
- 31. pollution adding harmful substances to the air, water, and land
- 32. reduce use smaller amounts of a natural resource (example: take showers, not baths)
- 33. reuse use a resource over and over again (example: make a pencil holder from a can)
- 34. recycle turn in plastic, glass, or cans to be used again

1. Virginia is rich in a wide variety of natural resources.

Natural Resources	Man-Made Resources
forests	Forests are turned into: -lumber and wood for building houses, furniture, and boats -pulp for making paper -wood for heating and cooking
arable land (farmable land)	Arable land gives us: -peanuts for peanut butter or peanut oil -tobacco for tobacco products -apples for applesauce, apple cider, or apple pie

	 -cotton for cloth to make clothing Arable land also give us a place to raise: poultry (chickens, turkeys) for food
coal	Coal is used to: • heat buildings • create electricity • make steel
sand and rocks (aggregates)	Sand and aggregates can be used in making: roads concrete glass
wildlife organisms (wild plants and animals)	Wildlife plants and animals provide us with: • meat to eat (deer, wild turkey) • wildflowers to enjoy throughout Virginia
aquatic organisms (plants and animals in the water)	Aquatic organisms provide us with: -seafood to eat (oysters, blue crabs, shrimp) -fish to eat (menhaden, shad, blue fish, striped bass, perch, herring, trout, flounder) -animals for pets (frogs, salamanders, turtles) -underwater grasses (submerged aquatic vegetation) that protect shorelines from erosion
clean water and clean air	Clean water is used for: -transporting goods by boat or ship -drinking -hydroelectric power -crop irrigation -recreational activities
beautiful scenery	Beautiful scenery is throughout Virginia's flat lands, rolling hills, mountains, valleys, and plateaus.

- 2. <u>natural resources</u>: a material found in nature that is useful to people
- 3. $\underline{\text{man-made resource}}$: things made by people out of materials that began as natural resources
- 4. Virginia's water resources include

1. groundwater

4. rivers

2. lakes

5. bays

3. reservoirs

6. the Atlantic Ocean

5. Virginia has many rivers, lakes, and bays.

	Rivers	Lakes	Bays
Characteristics	a long, narrow body of water that flows through the land	a body of water with land all around it	a part of a large body of water that reaches into the land
Examples in Virginia	 Potomac River Rappahannock River James River York River 	 Lake Drummond Smith Mountain Lake Lake Anna John H. Kerr Reservoir (Buggs Island Lake) 	• Chesapeake Bay

6. A <u>watershed</u> is an area over which surface water (and the materials

it carries) flows to a single collection place. There are 14 watersheds

in Virginia; 9 of them are major ones.

- 1. The Chesapeake Bay <u>watershed</u> covers half (50%) of Virginia's land area.
- 2. The other two major watershed systems are the Gulf of Mexico and the North Carolina Sounds.
- 7. The nine major watershed "addresses" in Virginia are the:
 - 1. Potomac-Shenandoah Rivers Watershed
 - 2. Rappahannock River Watershed
 - 3. York River Watershed

- 4. James River Watershed
- 5. Eastern Shore of Chesapeake Bay & Coastal Rivers
- 6. Chowan River Watershed
- 7. Roanoke River Watershed
- 8. New River Watershed
- 9. Tennessee-Big Sandy Watershed
- 8. Virginia has a great variety of plant and animal resources.

PLANTS	WILD ANIMALS	DOMESTICATED ANIMALS
apple trees	black bear	cats
tobacco	white-tailed deer	dogs
peanuts	squirrels	birds in cages
cotton	turkeys	cattle (dairy and beef)
corn	bald eagles	poultry (turkeys and
	_	chickens)
wheat	wild rabbits	
peach trees	beavers	
	cardinals and	
	other birds	
	opossum	
	foxes	

9. Natural and cultivated forests are a widespread resource in Virginia.

		Why are these forests important?
NATURAL FORESTS	grow in the wild without any help from man	 Protect stream banks and soil from erosion
CULTIVATED FORESTS	planted by man for a specific purpose • timbering TREES pine	 Protect watersheds Provide food and habitat for fish and wildlife

spruce fir oak maple hickory beech reclamation of	 Clean the air Supply raw materials for fuel, lumber, and paper
land	 Give people opportunities for outdoor recreation (hiking, biking, camping, wildlife- watching)

10. Virginia contains several important mineral resources.

MINERAL RESOURCE	DEFINITION	WHY IS IT
		IMPORTANT?
	a black or	burned to
	brownish black	heat buildings
	solid substance	
coal	that takes	 used to make
2 - 2.	thousands of	electricity
	years to be	
	created; it is a	• used for
	natural resource	making steel
	widely used as a	muning steel
	fuel	
		• statues
		· Stutues
	a rock that is	
limestone	formed chiefly	buildings
	from animal	
	remains (shells or	• roofing
	coral)	materials
		1110101010
		 blackboards
	ı	I .

granite (a type of stone)	a very hard rock that can be polished	used in buildings used in monuments crushed and used to build roads used to make bricks
sand and gravels	sand: loose material in grains produced by the natural breaking up of rocks gravel: small pieces of rock and pebbles larger than grains of sand	 used to build roads used to make concrete used in making glass

11. Virginia's soil and land...

OF LIFE • people • farming • recreation domesticated animals • industries	OFFER A VARIETY
 people farming recreation domesticated manufacturing animals industries 	F RECREATIONAL
 recreation domesticated manufacturing industries 	ACTIVITIES
domesticated o transportation plants equipment • wild animals o printing	 tourism boating waterskiing fishing swimming picnics hiking camping

• wild plants	 food processing chemicals industrial machinery electronics furniture lumber and wood products metal products 	 bird-watching nature photography
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