

## West Virginia Studies Resource Development

<b>Title of Lesson:</b> <b>Natural Resources of West Virginia</b>
<b>Grade level:</b> <b>8<sup>th</sup> Grade</b>
<b>Summary: Students will be able to describe what a by-product is and how it can be developed into a support business</b>
<b>WV CCR Social Studies Standards</b> <b>SS.8.6</b> <ul style="list-style-type: none"><li>• Evaluate West Virginia’s role in the global economy as it relates to natural resources and national/ international business and trade.</li></ul> <b>SS.8.9</b> <ul style="list-style-type: none"><li>• Research and cite industries and products that are vital to the economy of the four regions of West Virginia both past and present, and categorize the related occupations (e.g., tourism, coal, glass, timber, chemical, oil, natural gas, agriculture service industries, and gaming).</li></ul>
<b>Essential Questions:</b> <ul style="list-style-type: none"><li>• What are by-products of natural resources and how can they be developed into a support industry?</li></ul>
<b>Materials:</b> <ul style="list-style-type: none"><li>• <b>Computer paper</b></li><li>• <b>Pencils</b></li><li>• <b>Colored pencils</b></li><li>• <b>Crayons</b></li><li>• <b>Markers</b></li><li>• <b>Rulers</b></li><li>• <b>Rubric</b></li></ul>
<b>Learning Plan:</b> <ul style="list-style-type: none"><li>• <b>Divide the class into groups of two</b></li><li>• <b>Describe what a by-product is</b></li><li>• <b>Give each group a copy of the rubric and a prepared list of by-products</b></li><li>• <b>Have each group create and design a flyer for their new company they are designing based on the by-products their group chose to sell.</b></li><li>• <b>Each flyer must have the following items: Name for their company (Must be a new name), Company Logo, Catch Phrase Slogan, An Illustration showing the type of products the company sells, must be neat, colorful, and have names on the back</b></li></ul>
<b>Checking for Understanding:</b> <ul style="list-style-type: none"><li>• <b>Student participation in the creation of the flyer</b></li><li>• <b>Completion of flyer (rubric)</b></li></ul>
<b>Accommodations: Pair a student who is not creative with a more creative person</b>



## Natural Resources Flyer Rubric

Name of Student \_\_\_\_\_

Name of Student \_\_\_\_\_

**DIRECTIONS:** Each flyer must have the name of the business, logo, catch phrase slogan about your business, & an illustration of the products your business creates and sells.

\_\_\_\_\_ 10 points for turning your flyer in on time

\_\_\_\_\_ 20 name of the Company you created (must be original and unique)

\_\_\_\_\_ 20 logo is clearly seen

\_\_\_\_\_ 20 catch phrase slogan is clearly stated

\_\_\_\_\_ 30 Illustration is visible, colorful, and neat

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/100 total

# A partial list of products made from Petroleum (144 of 6000 items)

One 42-gallon barrel of oil creates 19.4 gallons of gasoline. The rest (over half) is used to make things like:

Solvents	Diesel fuel	Motor Oil
Ink	Floor Wax	Ballpoint Pens
Upholstery	Sweaters	Boats
Bicycle Tires	Sports Car Bodies	Nail Polish
Dresses	Tires	Golf Bags
Cassettes	Dishwasher parts	Tool Boxes
Motorcycle Helmet	Caulking	Petroleum Jelly
CD Player	Faucet Washers	Antiseptics
Curtains	Food Preservatives	Basketballs
Vitamin Capsules	Antihistamines	Purses
Dashboards	Cortisone	Deodorant
Putty	Dyes	Panty Hose
Percolators	Life Jackets	Rubbing Alcohol
Skis	TV Cabinets	Shag Rugs
Tool Racks	Car Battery Cases	Epoxy
Mops	Slacks	Insect Repellent

Umbrellas	Yarn	Fertilizers
Roofing	Toilet Seats	Fishing Rods
Denture Adhesive	Linoleum	Ice Cube Trays
Speakers	Plastic Wood	Electric Blankets
Tennis Rackets	Rubber Cement	Fishing Boots
Nylon Rope	Candles	Trash Bags
Water Pipes	Hand Lotion	Roller Skates
Shampoo	Wheels	Paint Rollers
Guitar Strings	Luggage	Aspirin
Antifreeze	Football Helmets	Awnings
Clothes	Toothbrushes	Ice Chests
Combs	CD's & DVD's	Paint Brushes
Vaporizers	Balloons	Sun Glasses
Heart Valves	Crayons	Parachutes
Enamel	Pillows	Dishes
Anesthetics	Artificial Turf	Artificial limbs
Dentures	Model Cars	Folding Doors
Cold cream	Movie film	Soft Contact lenses

Fan Belts

Car Enamel

Shaving Cream

Refrigerators

Golf Balls

Toothpaste

## West Virginia's Natural Resources

<b>Name of the Resource</b>	<b>Where in the state is it located (County or Relative location)</b>	<b>How can it be used (Some may have multiple uses)</b>
<b>Salt</b>		
<b>Iron</b>		
<b>Coal</b>		
<b>Natural Gas</b>		
<b>Oil</b>		
<b>Water</b>		
<b>Timber</b>		
<b>Chemicals</b>		