

SECTION III: MANUFACTURING TECHNOLOGY**Social Studies Connection: Public Policy****Activity III-3**

Minerals for Manufacturing

There may still be a lucky few who can buy all their raw materials locally. For everyone else, manufacturing is international business. Study the chart below; and consider this generalization: "The demand for natural resources used in technology links the United States to countries around the globe." On the outline map of the world, label the countries that supply the United States with minerals needed in industry. Then, on a separate sheet of paper, write a paragraph explaining how your completed map supports the generalization.

U.S. Reliance on Foreign Supplies of Minerals			
Mineral	% Imported	Major Sources	Major Uses
Columbium	100	Brazil, Canada, Thailand	Steelmaking and aerospace alloys
Graphite	100	Mexico, China, Brazil, Madagascar	Metallurgical processes
Manganese	100	Gabon, South Africa	Steelmaking
Mica (sheet)	100	India, Belgium, France, Japan	Electronic and electrical equipment
Strontium (Celestite)	100	Mexico, Spain, China	Television picture tubes; pyrotechnics
Bauxite and alumina	97	Australia, Guinea, Jamaica, Suriname	Aluminum production
Platinum group	95	South Africa, Britain, Russia	Catalytic converters for autos; electrical and electronic equipment
Fluorspar	91	Mexico, South Africa	Raw material for metallurgical and chemical industries
Diamonds (industrial)	90	South Africa, Britain, Ireland, Zaire	Machinery for grinding, cutting
Cobalt	86	Zaire, Zambia, Canada, Norway	Aerospace alloys
Tantalum	85	Thailand, Brazil, Australia, Canada	Electronic components
Chromium	79	South Africa, Zimbabwe, Turkey	Stainless steel
Tungsten	73	China, Bolivia, Germany, Canada	Lamp filaments
Tin	73	Brazil, Indonesia, Bolivia	Cans; electrical construction
Barite	71	China, Morocco, India	Oil drilling fluids
Potash	70	Canada, Israel, Germany, Russia	Fertilizer
Zinc	69	Canada, Mexico, Peru, Spain	Construction and transportation materials
Nickel	65	Canada, Australia, Norway	Stainless steel and other alloys
Cadmium	62	Canada, Australia, Mexico, Germany	Batteries; plating and coating of metals
Silver	NA	Canada, Mexico, Britain, Peru	Photography; electrical and electronic products

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