

# GEOLOGY

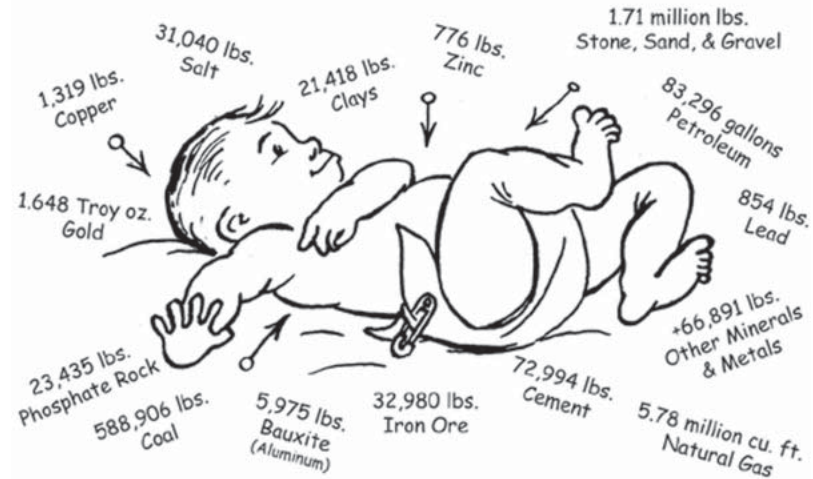
is the science of the earth.

Geologists study the earth and its water, air, rocks, volcanoes, oceans, rivers, lakes, glaciers, mountains, and all other features. The work of geologists is fundamental to every aspect of daily life especially public health and welfare.

Geologic information is used to:

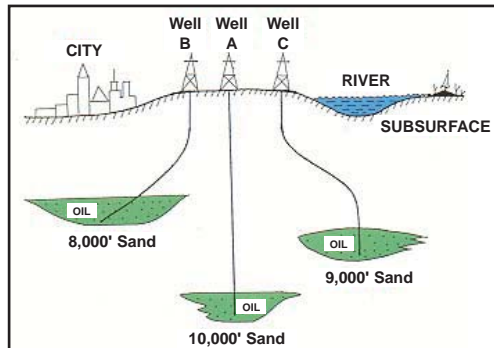
1. Find and develop drinking water supplies.
2. Protect drinking water supplies.
3. Solve environmental problems.
4. Minimize the effect of natural hazards.
5. Help safely dispose of waste materials.
6. Develop urban plans.
7. Find and develop resources that are necessary for fertilizers, fuel, automobiles, clothing, computer components, building materials, and pharmaceuticals.

## Every American Born Will Need...

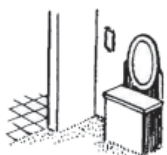


**3.5 million pounds of minerals, metals, and fuels in a lifetime.**

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# AMERICAN INSTITUTE of PROFESSIONAL GEOLOGISTS



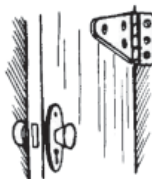
The **interior walls** are usually wallboard, made of *gypsum*.

Your **plumbing fixtures** may be made of brass (*copper & zinc*) or stainless steel (*iron, nickel & chrome*).



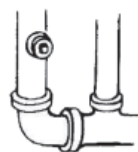
Your **windows** are made of glass (*trona, silica, sand* and *feldspar*).

Your **toilets, sinks** and **bathtubs** are made of porcelain (*clay*) over *iron*, or *plastic (petroleum)*.



Your **door knobs, locks** and **hinges** are brass or steel (*copper, zinc, iron ore*, and *alloys*).

Your **sewer system** is made of *clay* or *iron pipe* (plastic pipes are made from *petroleum*); if you have a **septic tank** it is *concrete* and the leach field is filled with *sand* and *gravel*.



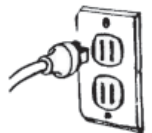
Your **fireplace** may be made of *rock, brick*, or you may have a wood/coal burning **stove** (*steel, iron, alloys, etc.*). Your **furnace** is made of steel (*iron* and *alloys*).

The **carpet** in your home is made from synthetic fibers (*petroleum*). The back is filled with *limestone*, even if your carpet is made of wool.



If your house is painted, **paint** is manufactured with *mineral filler* and *pigments*.

And finally, your **mortgage** or **rental contract** is written on paper made from wood or cloth fibers. The fibers are filled with *clay* and *other minerals* to determine its color and texture.



Your **electrical wiring** is, of *copper* or *aluminum (bauxite)*.

## Your House Came Out of the Ground

### Find Out

Which of the materials used to build your house, came from your community or state? Can you discover which other states, and even other countries, were involved in producing the materials that were necessary to build your house?

Mineral Information Institute - Denver, Colorado - [www.mii.org](http://www.mii.org)

## WEB SITES that contain information about GEOLOGY

Your State Geological Survey  
Association of American State Geologists <[www.stategeologists.org](http://www.stategeologists.org)>

U.S. Geological Survey  
<[www.usgs.gov/](http://www.usgs.gov/)>

Mineral Information Institute  
<[www.mii.org](http://www.mii.org)>

American Geological Institute  
<[www.agiweb.org](http://www.agiweb.org)>

Office of Surface Mining  
<[www.osmre.gov/osm.htm](http://www.osmre.gov/osm.htm)>



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