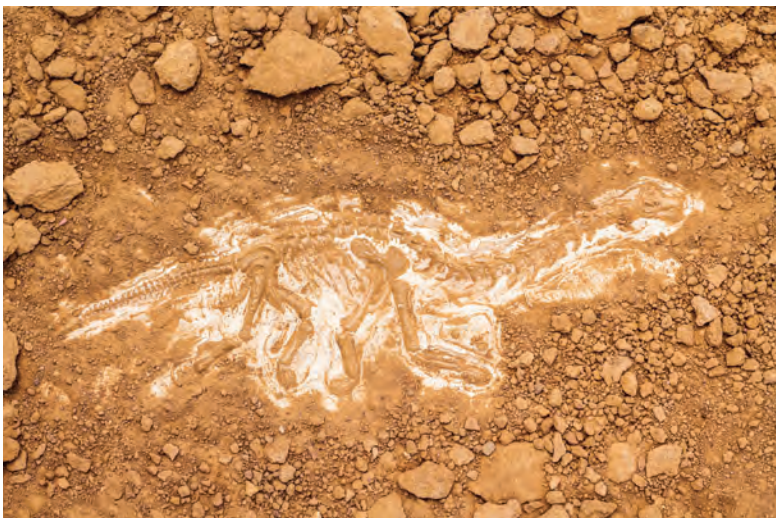




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## Vocabulary



**boulder**



**clay**



**cobbles**



**Earth materials**



**gravel**



**igneous**



**metamorphic**



**minerals**



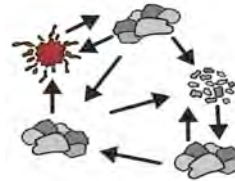
nature



pebbles



rock



rock cycle



sand



sedimentary

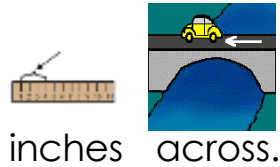


silt

# Vocabulary Definitions



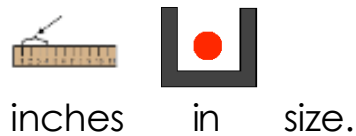
A large rock that is more than 10



The smallest kind of rock.



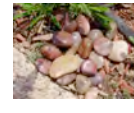
Rocks that are  $2 \frac{1}{2}$  inches to 10



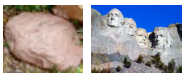
Rocks, soil, water, minerals, & air.



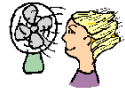
gravel



Rocks that are smaller than pebbles.



igneous



Rocks that form when very hot rocks cool.



metamorphic



Rocks formed from other kinds of rock



because of pressure and heat.



minerals



Found in nature, but they are not plants



or



animals.



nature

Anything that has not been made by man.



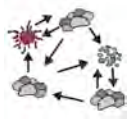
pebbles

Rocks that are  $\frac{1}{6}$  inch to  $2\frac{1}{2}$  inches.



rock

Hard, solid material that covers the Earth.

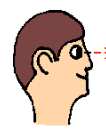
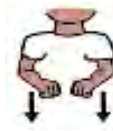


rock cycle

Rocks come from other rocks.



**sand**



Very small pieces of rock you can see



with your eyes.



**sedimentary**



**&**

Rocks formed when sand, small rocks, and



living things are pressed together.



**silt**



Pieces of rock so small you must look at



them through a magnifying glass.




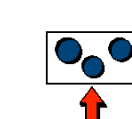

# Learning About Rocks

 Look  out  the window.  What  do  you








































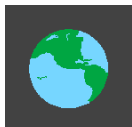
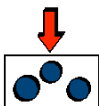
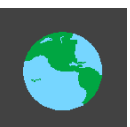
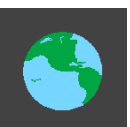







 see  that  is part of  nature?  You  see  sky,

 trees,  grass,  dirt,  rocks,  bushes,  birds,  &  flowers.

 You  might  see  leaves  &  branches  moving because

 of wind.  All  those  things  are part of  nature. Nature

 is anything  that  has  not  been  made  by  man.

 We  live  on  Earth.  We  can  
 live  on  Earth  because  it  has  everything  
 we  need  to live.  Earth  is  made  up  of rocks,  
 soil,  water,  and  minerals.  Air  that  we  
 breathe  surrounds  the Earth.  Rocks,  soil,  water,  
 minerals,  and  air  are  what  make  up  our  
 natural  world.  These  are  Earth  materials.  You  will  
 learn  about  in  this  chapter.



Earth is Covered with Rock



Rock is hard. Rock is solid. If something



is solid, it means that it is not hollow.



firm.



It is hard and firm. You cannot bend a



rock. You cannot squeeze a rock and change



matter if a rock



is very small or very big. It is hard.



It is solid.

The entire planet Earth is covered in rock. In

some parts of our world the rock is covered by

soil which allows plants to grow. In other









parts of the world, the rock is covered by oceans






or lakes. In mountains and deserts the rock

is bare.

You can walk on any part of the

Earth, or sail on the oceans, and if you

















 dug down far enough, you will get to rock.






 There is always rock under you.















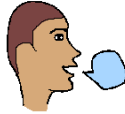







 All rocks are hard and solid. But









 rocks do not look the same. There are many kinds


 of rocks.





 Because there are so many rocks on
 


  








  
 Earth, people have given rocks names that tell
 
  



  
 us about the size of the rocks.



**Boulder**



**Cobbles**



**Pebbles**



**Gravel**



**Sand**



**Silt**



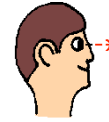
**Clay**



## People Use Rocks



Rocks are very useful to us. Buildings



are often made of rocks. You may be able to see



rocks on the outside of buildings.



Even if you cannot see rocks in a building,



they were most likely used to build your home,





your school,

&



and office



buildings .



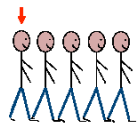
Buildings



made



with rocks

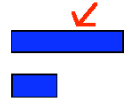


last



a

very



long



time

because



rock

is so strong.



There

are



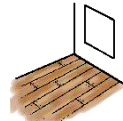
rocks



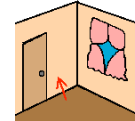
in



cement



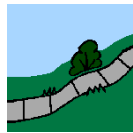
floors,



walls,

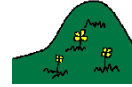
&

and



sidewalks.





People use rocks to keep dirt on hills from



washing away.



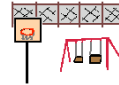
Big rocks are crushed to make smaller



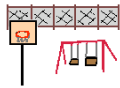
rocks that are used on roads and driveways.



The rock in some driveways is called gravel.



Gravel is also found on playgrounds. Does your



playground have gravel on it?



Some kinds of rocks are used to make



sculptures and memorials. Marble is a good rock






to use for sculptures.









**Lincoln Memorial**










     **Minerals**









      






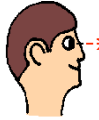


        








       

 We  make  tools  and  machinery  from iron.

 Aluminum is a mineral  that    we  see  every  day

 in  soda cans.  It is also used  in  cars.  Chalk

 is a mineral  that  is used  in  school.  Diamonds,  rubies,

 and  other  minerals are  made  into  jewelry.