1st Grade Pebbles, Sand & Silt

Read and answer each question carefully.

Circle the correct set of pictures.
1) Which of these pairs have things both made from rocks?

A) [Image of a hammer and a brick wall]

B) [Image of a brick wall and a road]

C) [Image of a road and a bat]

D) [Image of a hat and a fireplace]
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2) Scientists sort rocks by ____________.
   
   A) color  
   B) size  
   C) shape  
   D) all of the above

Use the notebook page to answer the question.

3) What is missing from this notebook page?

   October 3

   Today I rubbed 2 rocks. I saw white dust.

   A) words  
   B) drawing  
   C) flower  
   D) date
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4) Which would work best to sort out silt from a container of earth materials?
   A) use water - shake the container of material and water, and let it settle
   B) use screens - sort the material by pouring it through the screens
   C) use sorting page - using your hands, sort the material by different colors
   D) use sorting page - using your hands, sort the material by different sizes

5) A scientist uses screens to sort rocks by _________________.
   A) color
   B) size
   C) shape
   D) weight

6) Jose dropped a river rock into a cup of water. What do you think probably happened to the rock?
   A) It got harder.
   B) It got darker in color.
   C) It floated.
   D) It melted.

7) The smallest form of rock in the list below is _________________.
   A) clay
   B) gravel
   C) pebble
   D) sand
8) Dan had two different rocks. What might have happened when Dan rubbed them together?

   A) Bubbles came out of the rocks.
   B) Nothing happened.
   C) Dust fell from the rocks.
   D) Smoke came out of the rocks.

9) What tool would you use to sort rocks?

   A) thermometer
   B) paper
   C) computer
   D) screen
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Use the graph below for the next two questions.

10) Looking at the graph, which color of rock was most collected by the class?

A) red
B) white
C) brown
D) black

11) Students predicted which color rocks they would find the most. Which of the predictions is supported by the graph?

A) Students would collect mostly white rocks.
B) Students would collect mostly brown rocks.
C) Students would collect mostly red rocks.
D) Students would collect mostly black rocks.
12) How an object feels is called "texture". Which words describe the texture of a rock?

A) big or small
B) hot or cold
C) rough or smooth
D) shiny or dull

13) Look at the groups below. Which is a group of earth materials?

A) cat, dog, lizard
B) dog, rock, flower
C) pebble, sand, silt
D) tree, brick, car

14) The earth is made of materials such as soil and water. What else is the earth made of?

A) marbles
B) feathers
C) rocks
D) air

15) Earth materials are NOT used to ________________

A) build a brick house.
B) make clay pots.
C) make sandpaper.
D) make paper.
16) A sidewalk is made out of earth materials. What materials are used to make a sidewalk?

   A) sand and rocks
   B) plants and animals
   C) grass and dirt
   D) paper and pencils

17) Jose leaves a ball of clay in a cup of water. What will happen to the clay when he returns the next day? It will _________________.

   A) completely disappear
   B) stay the same
   C) begin to grow
   D) fall apart

18) What is soil made of?

   A) smooth silt and brown sand
   B) wet dirt and little rocks
   C) large pebbles and red clay
   D) rocks, sand, and humus (decaying plant materials)

19) Which two senses would you use to tell if a rock is smooth?

   A) smell and sight
   B) hearing and sight
   C) taste and hearing
   D) touch and sight
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20) Predict what will happen to a ball of clay left out to dry overnight on the counter.

   A) It will change from soft to hard.
   B) It will change from hard to soft.
   C) It will melt.
   D) It will not change.

21) Which is **NOT** an ingredient of soil?

   A) boulders
   B) humus (decaying plant materials)
   C) pebbles
   D) sand

22) A magnifying lens helps a scientist ____________________________

   A) see things far away.
   B) see things close up.
   C) see things in the dark.
   D) see things that are moving.
23) What earth material is layer 2 made of?

A) silt  
B) sand  
C) pebbles  
D) water
24) What earth material is layer 4 made of?

A) silt  
B) sand  
C) water  
D) pebbles

25) Do plants grow better in soil or in sand?

A) They grow better in sand because there is a lot of water in sand.  
B) They grow better in soil because soil has more ingredients to support the growth of plants.  
C) They grow better in soil because there are bigger rocks.  
D) They grow better in sand because sand is cooler than soil.