

GEOLOGY

Grades 3-6

STUDENT JOURNAL

This journal belongs to:



THE GOOD AND THE BEAUTIFUL

INSTRUCTIONS

This student journal accompanies *The Good and the Beautiful Geology* science unit. It contains all the worksheets and journal pages that are needed to complete the unit. Each student will need his or her own copy of the student journal.

Have each student take his or her time to create high-quality work as the activities and worksheets are completed. Students may enjoy looking back on their past discoveries when they've finished.

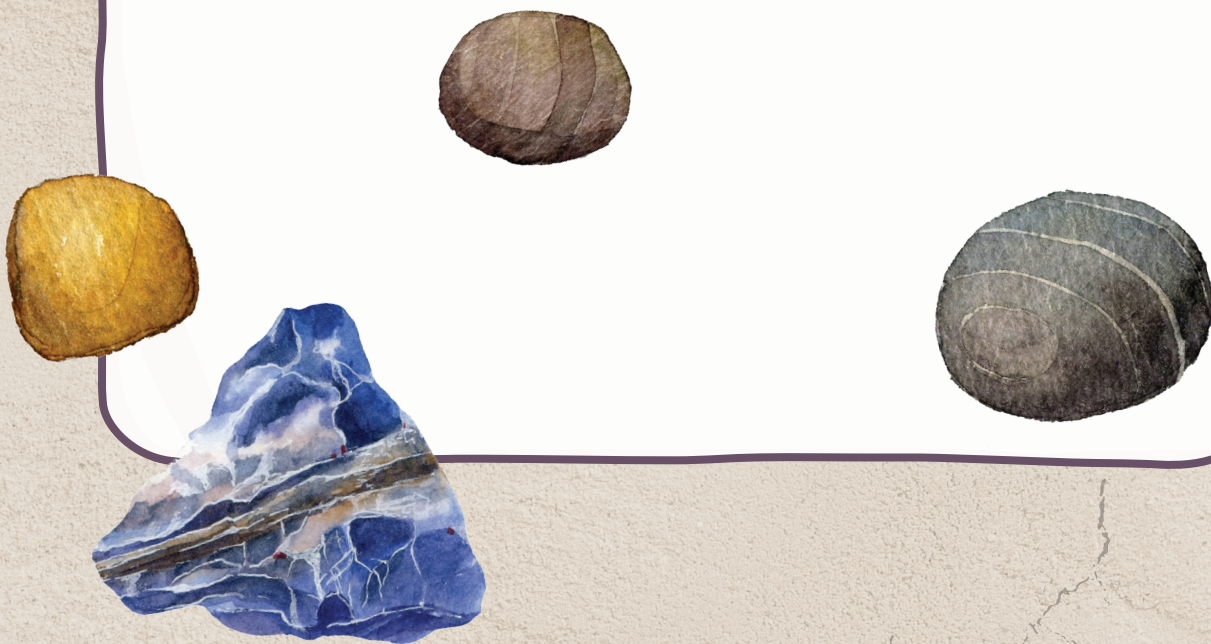


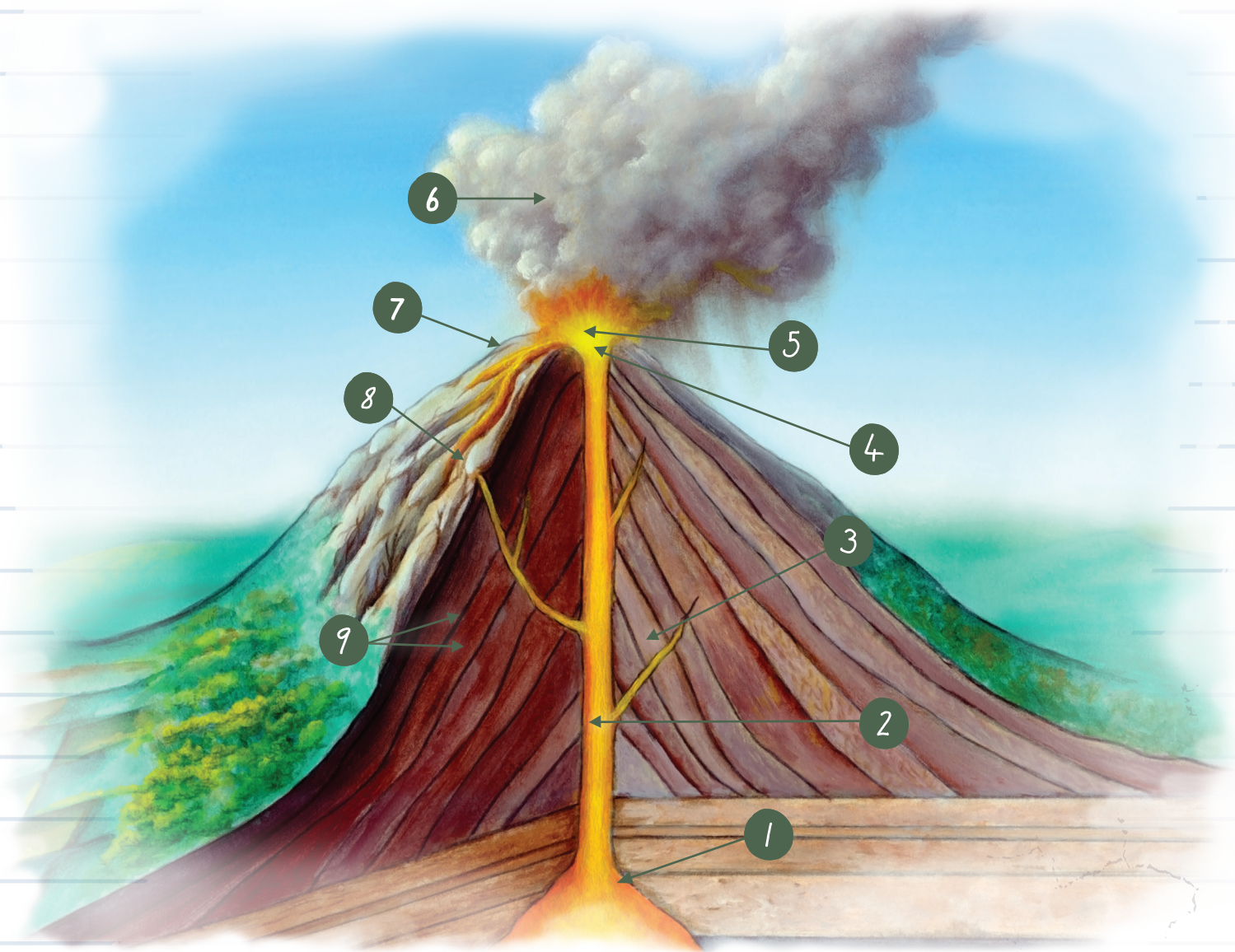
TABLE OF CONTENTS

Lesson 1.	.1
Lesson 2	.2
Lesson 3.	.3
Lesson 4	.4
Lesson 5.	.8
Lesson 6.	.9
Lesson 7	.15
Lesson 8.	.17
Lesson 9.	.20
Lesson 10	.23
Lesson 11	.24
Lesson 12	.27
Lesson 13	.28
Lesson 14	.29



STRUCTURE OF A VOLCANO

Draw a line to connect each word to the correct part of the volcano.



magma chamber

side vent

conduit

dike

lava

layers of ash and lava

ash cloud

main vent

crater

IS THIS A MINERAL?



1

yes

no



2

yes

no



3

yes

no



4

yes

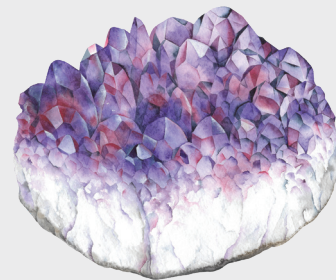
no



5

yes

no



6

yes

no



Mineral Name: SELENITE (GYPSUM)

Color:

Streak:

Luster:

Hardness:

Fracture:

Sketch:

Cleavage? YES or NO

of sides:

Mineral Name: FLUORITE

Color:

Streak:

Luster:

Hardness:

Fracture:

Sketch:

Cleavage? YES or NO

of sides:

Mineral Name: AQUAMARINE

Color:

Streak:

Luster:

Hardness:

Fracture:

Sketch:

Cleavage? YES or NO

of sides:

PRECIOUS STONES

Match the words and definitions.

Crystal

a three-dimensional solid that has its internal atoms arranged in a highly organized way

Gem

a rock with a hollow cavity containing crystals

Geode

a crystal mineral that is considered highly valuable; they are often cut and polished to make jewelry

Read the following poem by Christina Rossetti entitled "Precious Stones." Determine which color the three colorless gems should be and color them.

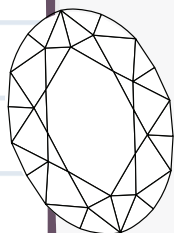
An emerald is as green as grass;
a ruby red as blood;

A sapphire shines as blue as heaven;
A flint lies in the mud.

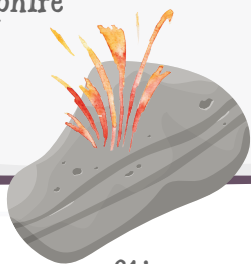
A diamond is a brilliant stone,
To catch the world's desire;
An opal holds a fiery spark;
But a flint holds fire.



diamond



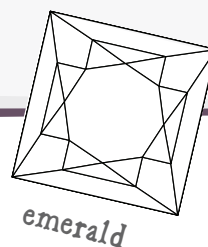
sapphire



flint



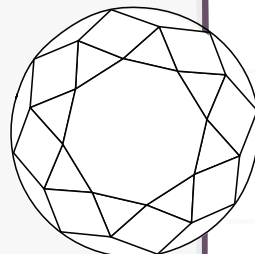
opal



emerald



flint



ruby

SEDIMENT JAR

Draw a picture of what your sediment jar looks like. See if you can find and identify any of the layers. If so, use the terms from the word bank below to label the layers.



Soil Salt Sand Pebbles Rocks Baby Powder



WEATHERING, EROSION, AND DEPOSITION

Find your way through the maze and unscramble the words along the way to find out what each of the processes does.

