

ROCKS AND MINERALS

ESCAPE ROOM

ROCKS AND MINERALS

found in abundance on Earth. Geologists are scientists that study the Earth's crust. They have discovered thousands of minerals and rocks. 95% of the Earth's crust is made of a type of rock known as igneous rocks. Minerals are not made up of rocks. Minerals each one has a unique chemical composition that makes it different. There are over 4,000 types of minerals on Earth including gold and silver. The International Mineralogical Association (IMA). To identify them, scientists use properties such as hardness, color, and density. Mineralogy is the science of minerals that are formed by two or more minerals that are fused together. Types of rocks: igneous, sedimentary, and metamorphic. Each one has a unique chemical composition that makes it different. There are over 4,000 types of minerals on Earth including gold and silver. The International Mineralogical Association (IMA). To identify them, scientists use properties such as hardness, color, and density. Mineralogy is the science of minerals that are formed by two or more minerals that are fused together.

LEVEL 1 DECODER

A	B	C	J	K	L
D	E	F	M	N	O
G	H	I	P	Q	R
T	S	U	X	W	Y
				Z	

L=2 J=q F=1
R=0 W=4 A=6
T=8 G=3 Z=5
Q=7 D=q P=0
H=1 Y=8 B=3
N=4 C=6 K=1

LEVEL 2 DECODER

+ [target icon] = 10
+ [3x3 grid icon] = 8

FIND THE VALUE OF EACH LETTER
A = [3x3 grid icon]

RECORDING SHEET

LEVEL 1	Q1	Q2	Q3
	#	#	#

LEVEL 1: QUESTION 2

--- are scientists that study the Earth and what it is made of.

Geologists
 Mineralogists
 Paleontologists
 Chemists

LEVEL 1: QUESTION 4

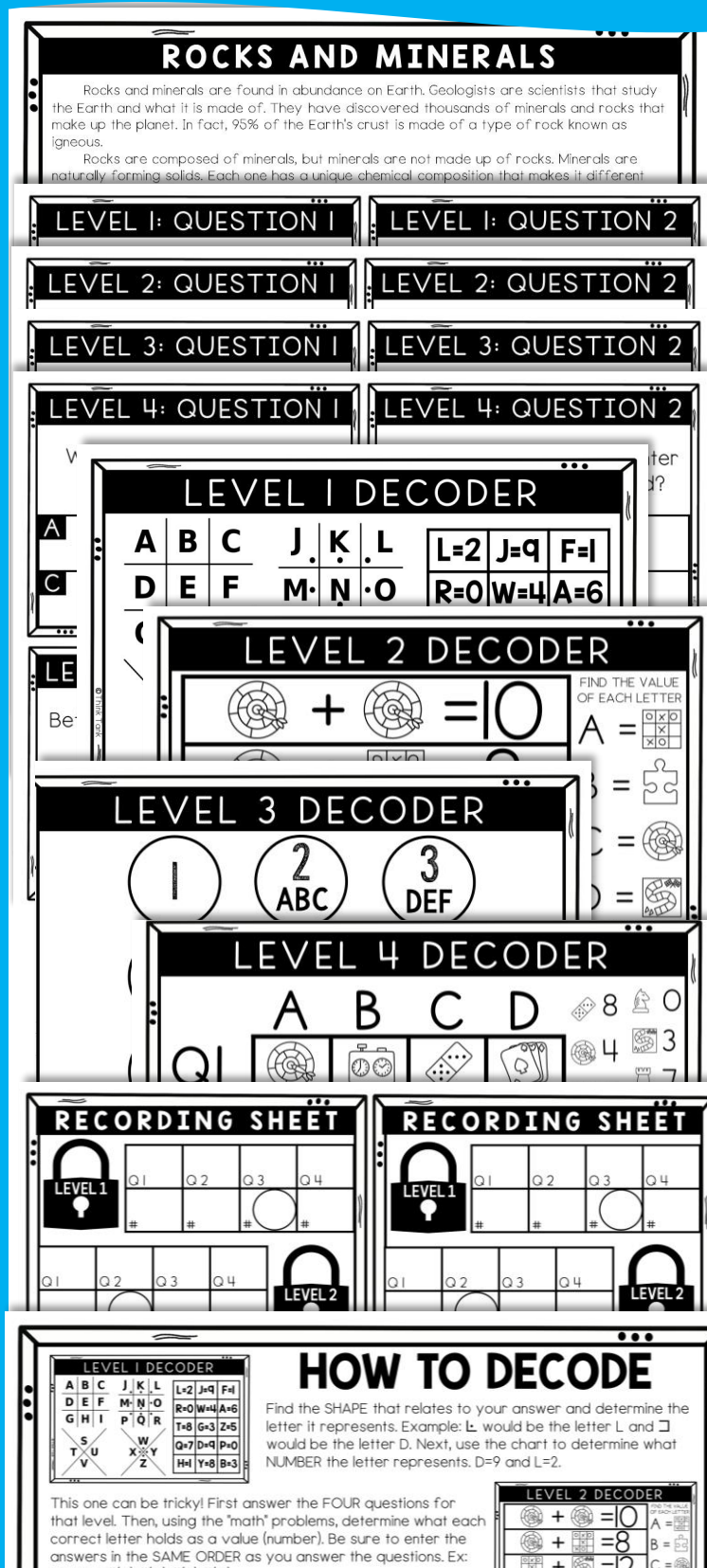
Rocks are changing over time in a process called the rock ---.

Roll

THINK TANK

6 colored markers: purple, pink, blue, green, yellow, red.

WHAT'S INCLUDED?



- ✓ READING PASSAGE
- ✓ 4 PUZZLE DECODERS
- ✓ 16 MULTIPLE CHOICE Q'S
- ✓ TEACHER GUIDE
- ✓ ANSWER KEY
- ✓ STUDENT DIRECTIONS
- ✓ HINT CARDS



16 QUESTIONS

S AND MINER
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such as hardness, color, and density
formed by two or more min
sedimentary, and

LEVEL 1: QUESTION 1
What are layers of sedimentary rock called?
A Quartzite B Strata
C Lava D Magma

LEVEL 1: QUESTION 2
--- are scientists who study the Earth and what it is made of.
A Geologists B Paleontologists
C Meteorologists D Biologists

LEVEL 2: QUESTION 1
How many types of minerals are on Earth?
A Over 4,000 B Over 5,000
C Over 6,000 D Over 7,000

LEVEL 1: QUESTION 3
The three types of rocks are igneous, sedimentary, and ---.

RECORDING SHEET
LEVEL 1
Q1 Q2 Q3 Q4
#

RECORDING SHEET
LEVEL 1
Q1 Q2 Q3 Q4
#

LEVEL 1 DECODER
B C J K L
E F M N O
H I P Q R
U X Y Z
L=2 J=q
R=0 W=4
T=8 G=3
Q=7 D=q
H=l Y=8
N=4 C=6 K

LEVEL 4: QUESTION 1
The IMA is the --- Mineralogical Association.
A Inspector B Independent
C International D Igneous

LEVEL 4: QUESTION 2
In w
min
A To
C B

LEVEL 3 DECODER
1 2 3
4 5 6
7 8 9
ABCDEFGHIJKLMNOPQRSTUVWXYZ

LEVEL 3: QUESTION 1
What makes up 95% of the Earth's crust?
A Sandstone B Marble
C Igneous D Granite

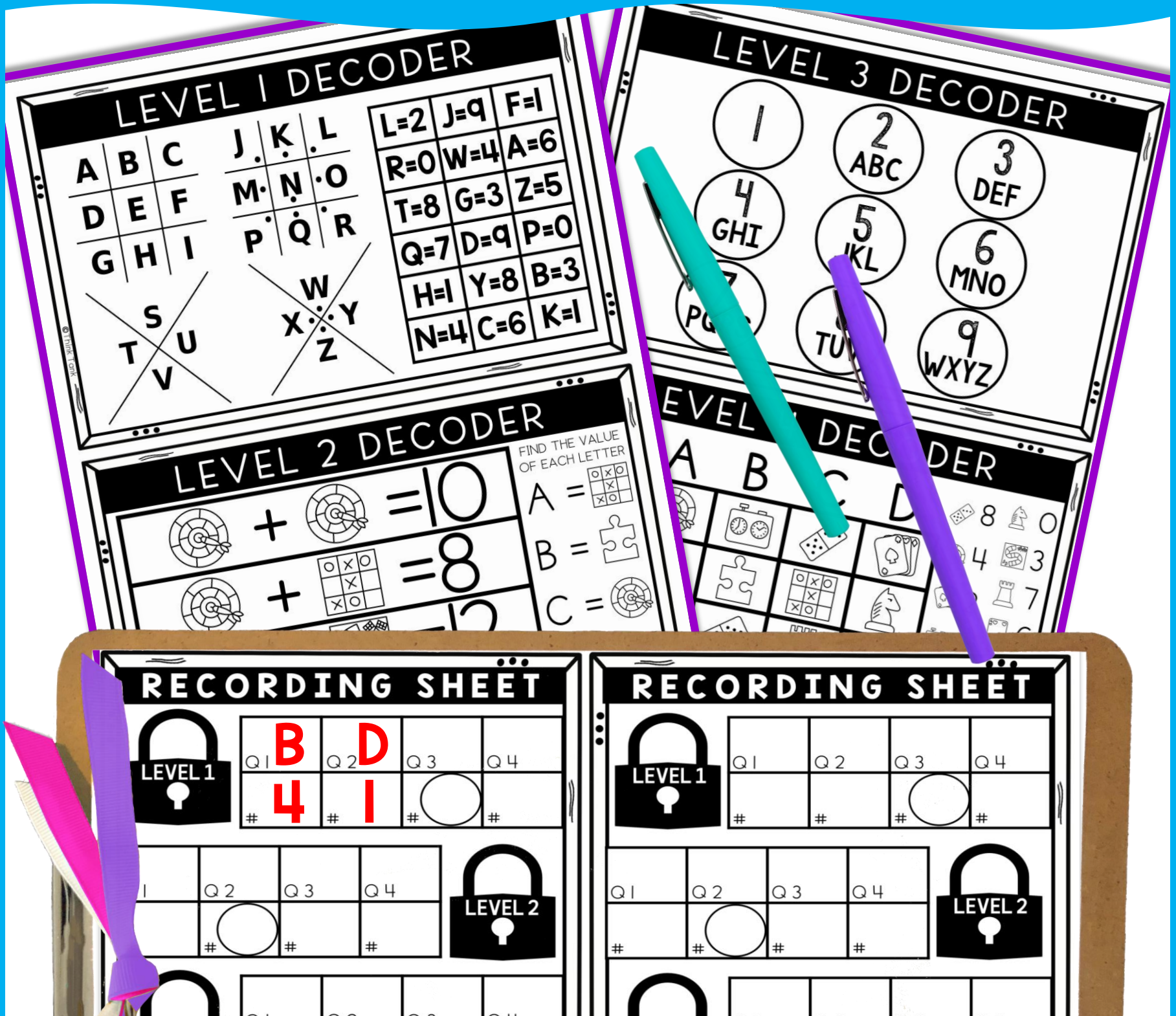
LEVEL 3: QUESTION 2
What are rocks composed of?
E Minerals F Dirt
G Clay H None of the above

LEVEL 3: QUESTION 3
--- are a type of rock that came from space.
I Meteorites J Metam

LEVEL 3: QUESTION 4
What does the Latin word "ignis" mean?

LEVEL 4 DECODER
Q1 Q2 Q3
A B C D
8 0
4 3
2 7
6


PUZZLE TYPES



PRINT, CUT, PLAY



HOW IT WORKS



ENGAGING READING COMPREHENSION PRACTICE!

1

Students work individually (or in pairs) and visit 16 question cards.

2

Students will answer the questions found directly in the passage on their recording sheet.

3

Students will use that specific “decoder” to reveal a 4-digit code for each level.

ROCKS AND MI

Rocks and minerals are found in abundance on Earth. the Earth and what it is made of. They have discovered that make up the planet. In fact, 95% of the Earth's crust is made igneous.

Rocks are composed of minerals, but minerals are not naturally forming solids. Each one has a unique chemical composition from other minerals. There are over 4,000 types of minerals recognized by the International Mineralogical Association (IMA).

LEVEL 1 DECODER

A	B	C	J	K	L	L=2	J=9	F
D	E	F	M	N	O	R=0	W=4	A=
G	H	I	P	Q	R	T=8	G=3	Z=
T	S	U	X	W	Y	Q=7	D=9	P=0
						H=1	Y=8	B=3
						N=4	C=6	K=1

LEVEL 1: QUESTION 1

What are layers of sedimentary rock called?

Quartzite

Strata

Lava

Magma

LEVEL 1: Q

--- are s
study the E
it is m

Geologists

Paleontologists

LEVEL 1: QUESTION 3

The three types of rocks are igneous, sedimentary and ---.

Metamorphic






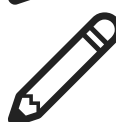
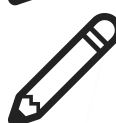
LEVEL 1: QU

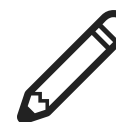



Rocks are cho
time in a proc
the rock

BENEFITS



THINK OUTSIDE THE BOX!

-  ANTICIPATORY SETS
-  UNIT REVIEW
-  EARLY FINISHERS
-  STATIONS
-  SUB PLANS
-  PARTNER WORK
-  ENRICHMENT

-  LOW PREP
-  PRINT, CUT & PLAY
-  CROSS-CURRICULAR
-  HIGHLY ENGAGING

