

INTRO TO SOUND

ESCAPE ROOM

INTRO TO SOUND

vibrations, or sound waves, that the human ear can hear. Sound waves travel through air, water, and solid objects. Sound waves, which means they cannot travel through empty space. Sound waves, which means they cannot travel through empty space. Sound waves, which means they cannot travel through empty space.

occur when there is a movement of matter (solid, liquid, gas). When the pencil hits the desk, the molecules (atoms) begin to vibrate and bounce off one another. The air molecules around them to vibrate as well. As they continue to vibrate, the sound waves also travel.

ound include pitch, speed, and loudness. The sound waves travel in different changes and sizes which determine the loudness of the sound.

LEVEL 1 DECODER

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

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

LEVEL 2 DECODER

RECORDING SHEET

LEVEL 1: QUESTION 2

3 bones in the ear are the hammer, anvil and ----.

Strap

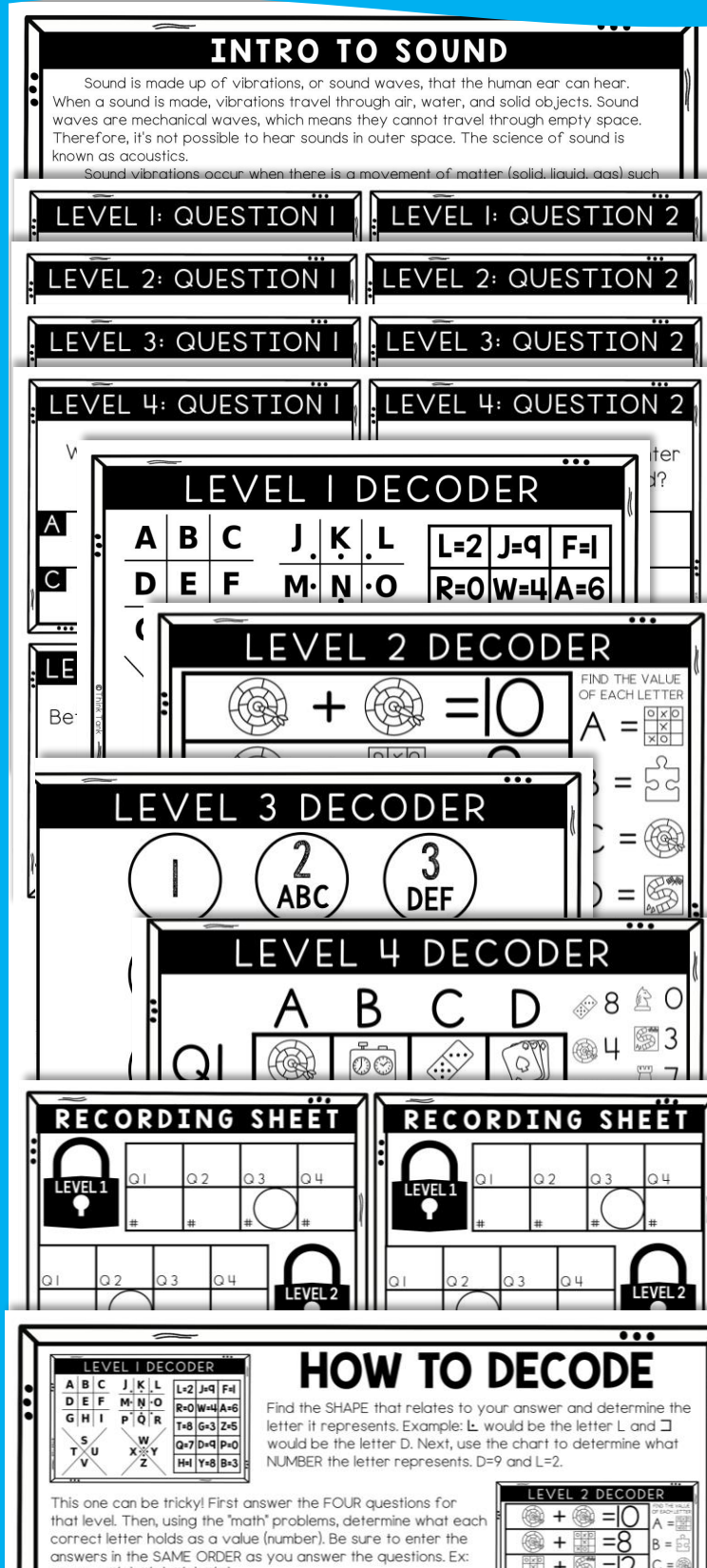
Crowbar

Stirrup

Nail

THINK TANK

WHAT'S INCLUDED?



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



16 QUESTIONS

INTRO TO SOUND

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...ations travel through air, water, and
...es, which means they cannot travel
...le to hear sounds in outer space. The
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...cil. When the pencil hits the desk, the
...gin to vibrate and bounce off one o
...round them to vibrate as well. As
...vel. Pitch, speed, and loudne
...parent shapes and
...and narrow

LEVEL 1: QUESTION 1

What is the science of sound known as?

☐ Velocity	☐ A Sigmatism
☐ Acoustics	☐ C Stenography

LEVEL 1: QUESTION 2

3 bones in the ear are the hammer, anvil and

☐ A Strap	☐ D
☐ C Stirrup	☐ B

LEVEL 2: QUESTION 1

Sound travels --- times faster in water than air.

☐ A 2	☐ B 6
☐ C 4	☐ D 10

LEVEL 1: QUESTION 3

What word means how high a sound goes?

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	W	Y	Z

L=2	J=q
R=0	W=4
T=8	G=3
Q=7	D=q
H=1	Y=8
N=4	C=6

LEVEL 4: QUESTION 1

The --- is filled with fluid and small hair cells.

☐ A Cochlea	☐ B Nose
☐ C Stirrup	☐ D Sound wave

LEVEL 4: QUESTION 2

Sound waves are --- waves, which means they cannot travel through empty space.

☐ A Energy	☐ T Mechanical
☐ H Complex	☐ L Hypothetical

LEVEL 3: QUESTION 1

Sound waves are --- waves, which means they cannot travel through empty space.

☐ A Energy	☐ T Mechanical
☐ H Complex	☐ L Hypothetical

LEVEL 3: QUESTION 2

What are sounds with frequencies over 20,000 hertz called?

☐ E Apexsound	☐ M Ultrasound
☐ Y Metasound	☐ B Infrasound

LEVEL 3: QUESTION 3

--- is how many waves there are per second.

☐ I Prisms	☐ J
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LEVEL 3: QUESTION 4

How is decibels abbreviated?

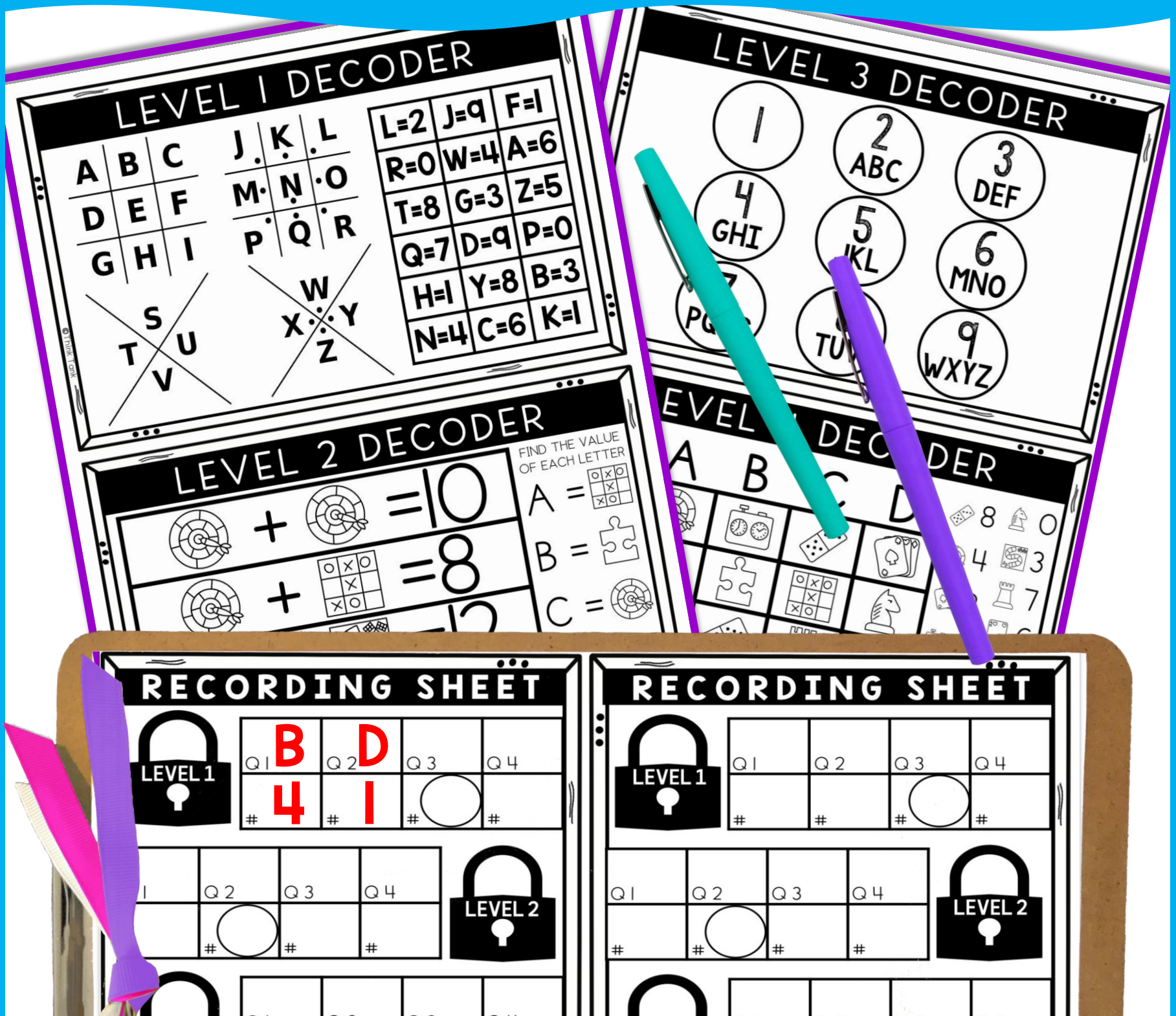
LEVEL 3 DECODER

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ

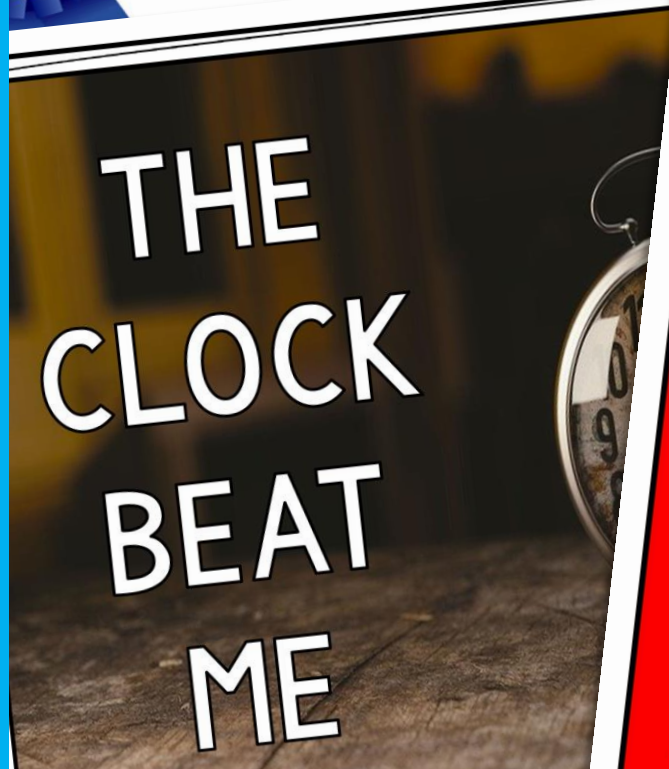
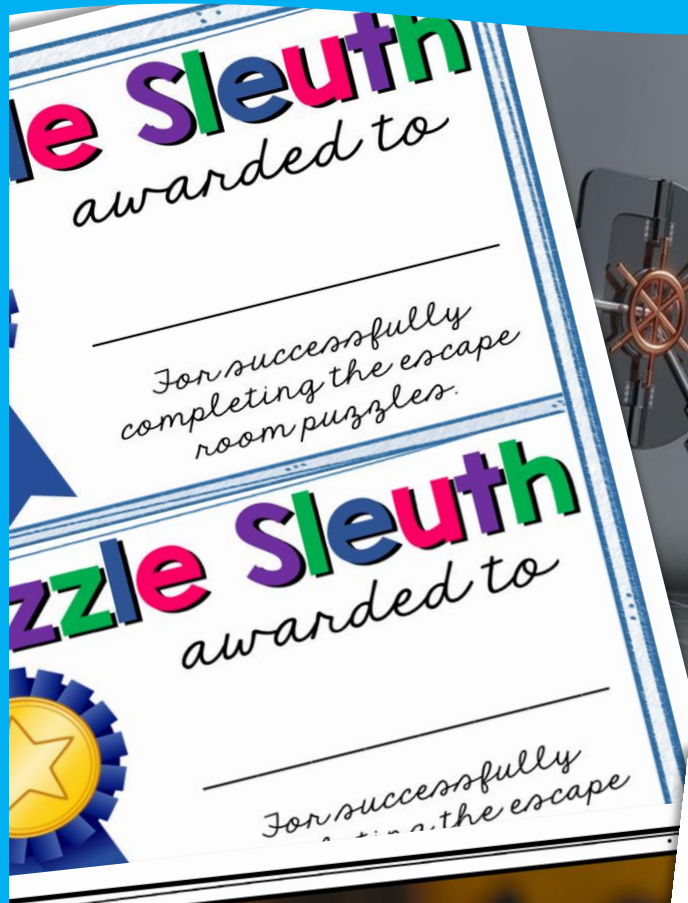
LEVEL 4 DECODER

Q1	A	B	C	D	8	9	0
Q2					4	3	
Q3					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.

INTRO TO SC

Sound is made up of vibrations, or sound waves. When a sound is made, vibrations travel through air, waves are mechanical waves, which means they cannot travel through a vacuum. Therefore, it's not possible to hear sounds in outer space known as acoustics.

Sound vibrations occur when there is a movement or as the tapping of a pencil. When the pencil hits the desk, the vibrations begin to vibrate and bounce off the

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D	E	F
G	H	I

J	K	L
M	N	O
P	Q	R

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

S	U
T	V

W	Y
X	Z

LEVEL 1: QUESTION 1

What is the science of sound known as?

☐ Velocity	☒ A	Stigmatism
☐ Acoustics	☐ B	Stenography

LEVEL 1: QUESTION 2

3 bones in the hammer, anvil, and stirrup

☒ C	Strap
☐ D	Stirrup

LEVEL 1: QUESTION 3

What word means how high the wave goes?

☐ Frequency	☒ E	Amplitude
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LEVEL 1: QUESTION 4

--- is the unit used to measure loudness of sound

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

