

TYPES OF WAVES

ESCAPE ROOM

TYPES OF WAVES

...ce or movement that transfers energy from one place to...
...note that waves only transfer energy, not matter. Waves are...
...from many different sources. Some waves can be seen, such...
...h, while others cannot be seen such as sound waves that allow...
...ent categories and measurements that are used to describe...
...e type of wave, all waves can be classified as either mecha...

...roperties that are used to describe the amount of energy they...
...ure of the wave's height. Amplitude is measured from the w...
...eak of the wave. The higher the amplitude, the more energy...
...e distance between each wave and is represented by the...
...sured from the peak of a wave in comparison to the peak...

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

2 ABC 3 DEF
5 JKL 6 MNO
8 TUV 9 WXYZ

LEVEL 1: QUESTION 2

Who discovered x-rays?

<input type="checkbox"/> Isaac Newton	<input checked="" type="checkbox"/> Wilhelm Roentgen
<input type="checkbox"/> Johannes Gutenberg	<input type="checkbox"/> Dmitri Mendeleev

LEVEL 1: QUESTION 4

--- waves have disturbances that move opposite to the wave.

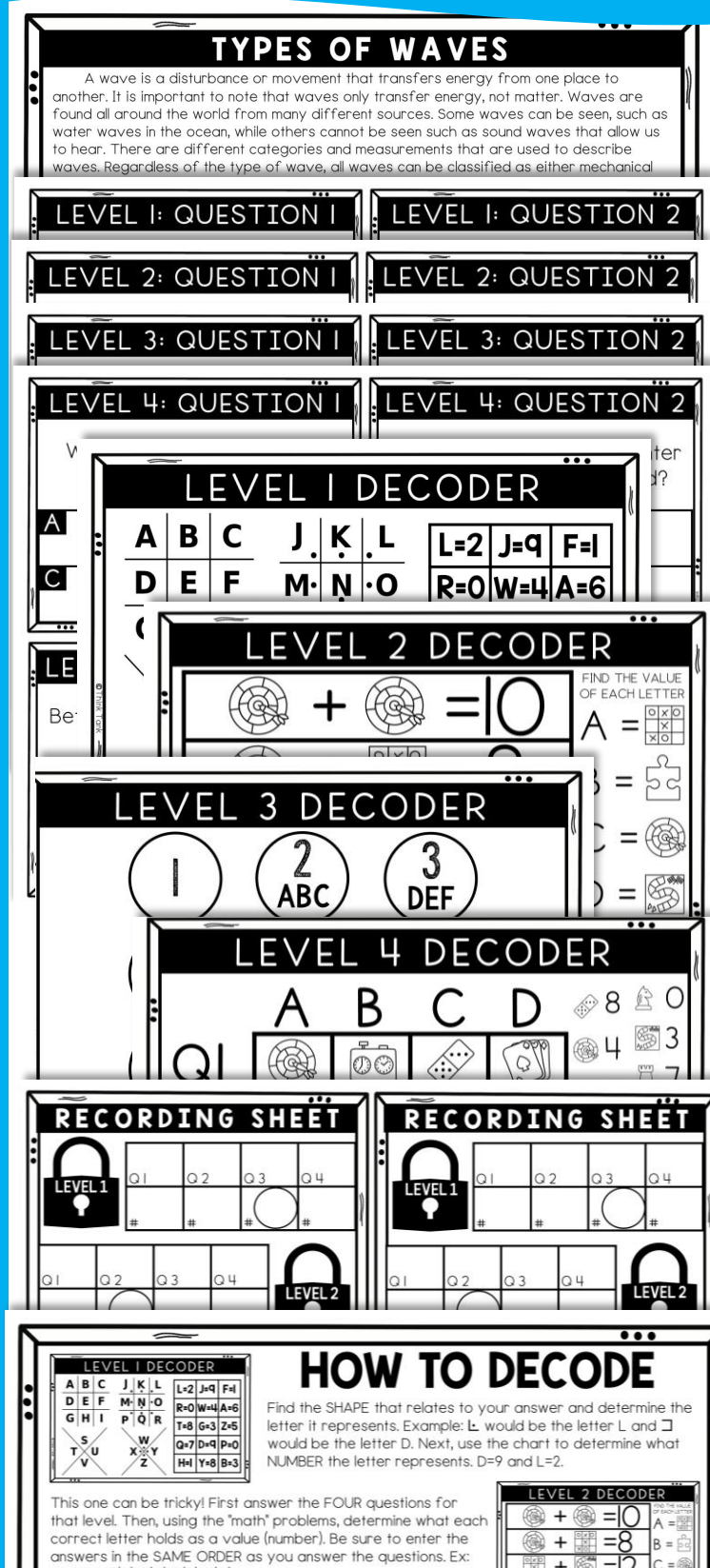
RECORDING SHEET

LEVEL 1	Q1	Q2	Q3
	#	#	#

LEVEL 2	Q1	Q2	Q3	Q4
	#	#	#	#

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

TYPES OF WAVES
... or movement that transfers energy...
... that waves only transfer energy...
... from many different sources. Some...
... while others cannot be seen such as...
... ent categories and measurements th...
... e type of wave, all waves can be cla...

LEVEL 1: QUESTION 1
All waves can be classified as either --- or electromagnetic.

J	Polar	A	Perishable
F	Mechanical	G	Complex

LEVEL 1: QUESTION 2
Who discovered ---

<	Isaac Newton	>
J	Johannes Gutenberg	D

LEVEL 2: QUESTION 1
What kind of waves are used to send and receive data?

A	Gamma	B	Radio
C	Micro	D	Macro

LEVEL 1: QUESTION 3
... decibels abbreviated?

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
Wavelength is represented by what Greek letter?

A	Beta	B	Gamma
C	Lambda	D	Zeta

LEVEL 4: QUESTION 2

A	
C	

RECORDING SHEET

LEVEL 1	Q1	Q2	Q3	Q4
#	#	#	○	#

LEVEL 3 DECODER

1	2	3
4	5	6
7	8	9

ABC DEF
GHI JKL
MNO PQR
STU VWX
YZ

LEVEL 3: QUESTION 1
Three bones in the ear are the hammer, anvil and ---.

A	Nail	T	Stirrup
H	Star	L	Strap

LEVEL 3: QUESTION 2
What is the measure of the wave's height?

E	Solitude	M	Amplitude
Y	Abraded	B	Fortitude

LEVEL 3: QUESTION 3
What is the highest point of a wave of water called?

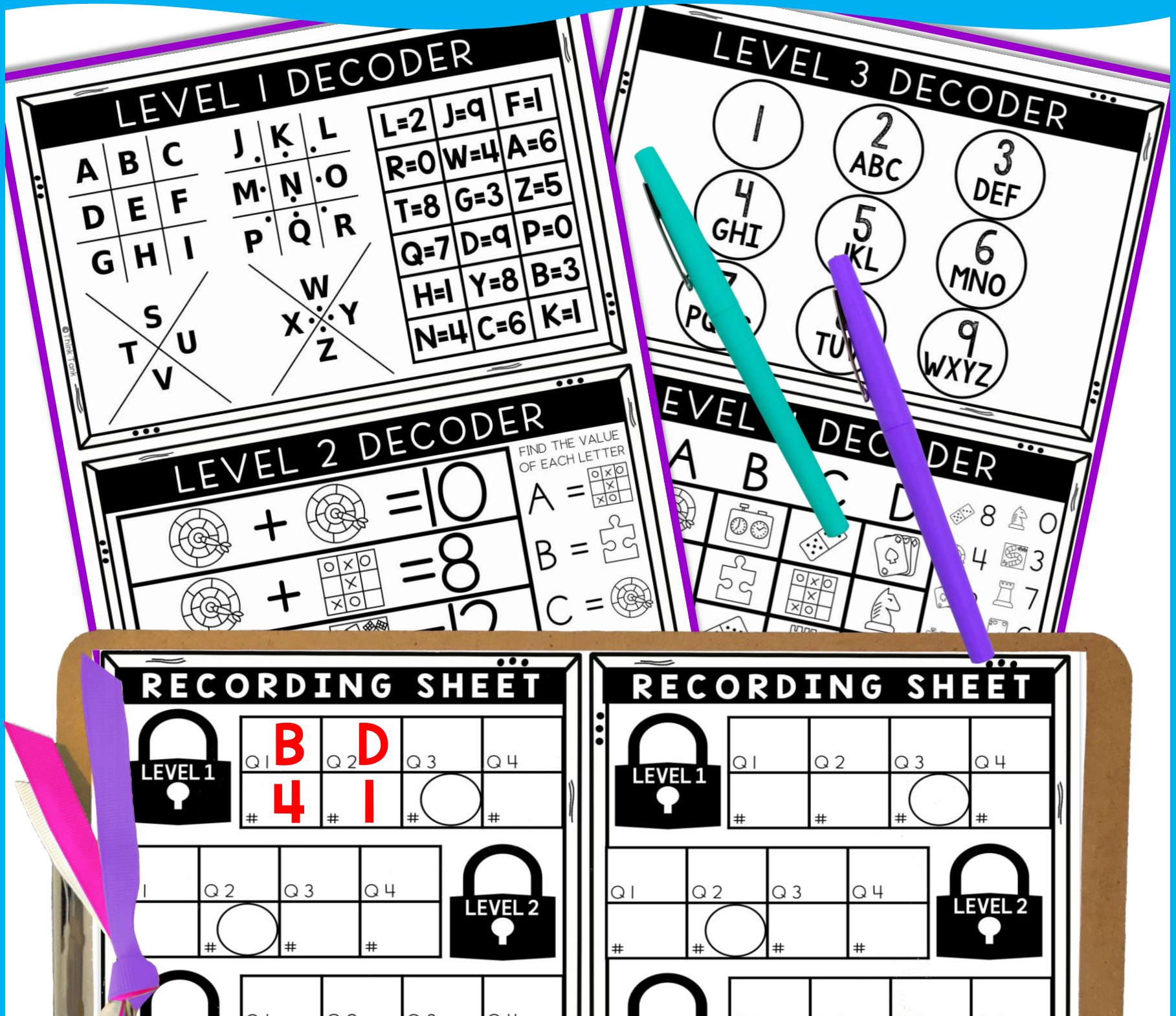
I	Apex	J	
---	------	---	--

LEVEL 3: QUESTION 4
Radars help --- predict the weather.

LEVEL 4 DECODER

Q1	A	B	C	D	8	9	0
Q2					4	5	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.

TYPES OF WAVES

A wave is a disturbance or movement that transfers energy from one place to another. It is important to note that waves only transfer energy, not matter. Waves are found all around the world from many different sources. Some waves, such as water waves in the ocean, while others cannot be seen such as sound waves to hear. There are different categories and measurements of waves. Regardless of the type of wave, all waves can be classified as either mechanical or electromagnetic.

Waves have properties that are used to describe them.

LEVEL 1 DECODER

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

All waves can be classified as either _____ or electromagnetic.

Polar

A Perishable

Mechanical

Complex

LEVEL 1: QUESTION 2

Who discovered the wave?

Isaac Newton

Johannes Gutenberg

LEVEL 1: QUESTION 3

How is decibels abbreviated?

dL



LEVEL 1: QUESTION 4




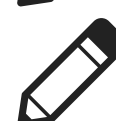
_____ wave disturbances travel in opposite to the direction of the wave.

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

