

# INTRO TO ELECTRICITY

# ESCAPE ROOM

**THINK TANK**

**ELECTRICITY**  
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se electrons is known as electricity. Today, electricity is used  
er homes, businesses, tv's, computers, and more.  
ert coined the term "electricity" (from the Greek word amber)  
o describe the idea of charges and shocks. However, major  
ricity didn't occur until the 19th century. Nikola Tesla, Alexan  
dison, and Albert Einstein were just a few of the notable sc  
to understand how electricity worked. Static electricity doe  
ypes of electricity: static and current. The opposite is curr  
hen electricity builds up in one place. The opposite is curr  
ves from one place to another.  
uilding block that all matter in the universe is made of. W

**LEVEL 1 DECODER**

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

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**

**RECORDING SHEET**

LEVEL 1	Q1	Q2	Q3
	#	#	#

LEVEL 2	Q1	Q2	Q3	Q4
	#	#	#	#

**LEVEL 1: QUESTION 2**  
A lightning bolt is an example  
of --- electricity in nature.

<input type="checkbox"/>	Current	<input checked="" type="checkbox"/>	Unnatural
<input type="checkbox"/>	Static	<input type="checkbox"/>	Polar

**LEVEL 1: QUESTION 4**  
What is the middle of  
an atom called?

Neutrons

proton

**DECODER**

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

**RECORDING SHEET**

LEVEL 1	Q1	Q2	Q3
	#	#	#

LEVEL 2	Q1	Q2	Q3	Q4
	#	#	#	#

# WHAT'S INCLUDED?

**ELECTRICITY**

Electricity is the movement of tiny particles called electrons. The energy harnessed from the movement of those electrons is known as electricity. Today, electricity is used around the world to power homes, businesses, tv's, computers, and more.

Scientist William Gilbert coined the term 'electricity' (from the Greek word amber) in 1660. He used the word to describe the idea of charges and shocks. However, major advancements with electricity didn't occur until the 19th century. Nikola Tesla, Alexander

LEVEL 1: QUESTION 1    LEVEL 1: QUESTION 2

LEVEL 2: QUESTION 1    LEVEL 2: QUESTION 2

LEVEL 3: QUESTION 1    LEVEL 3: QUESTION 2

LEVEL 4: QUESTION 1    LEVEL 4: QUESTION 2

**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=6

**LEVEL 2 DECODER**

FIND THE VALUE OF EACH LETTER

A = 

0	0
X	0
X	0

**LEVEL 3 DECODER**

1    2    3

ABC    DEF

**LEVEL 4 DECODER**

A B C D    8 0

Q I    4 3

**RECORDING SHEET**

LEVEL 1

Q1	Q2	Q3	Q4
#	#	#	#

LEVEL 2

Q1	Q2	Q3	Q4
#	#	#	#

**HOW TO DECODE**

Find the SHAPE that relates to your answer and determine the letter it represents. Example: L would be the letter L and □ would be the letter D. Next, use the chart to determine what NUMBER the letter represents. D=9 and L=2.

L-2	J=9	F=1
R=0	W=4	A=6
T=8	G=3	Z=5
Q=7	D=9	P=0
H=1	Y=8	B=3

LEVEL 2 DECODER

A = 

0	0
X	0
X	0

B = 

0	0
0	0
0	0

C = 

0	0
0	0
0	0

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



# 16 QUESTIONS

**ELECTRICITY**  
...ent of tiny particles called electrons...  
...se electrons is known as electricity. T...  
...homes, businesses, tv's, computers...  
...rt coined the term "electricity" (from...  
...rt describe the idea of charges and...  
...ricity didn't occur until the 19th centu...  
...ison, and Albert Einstein were just a...  
...o understand how electricity worked...  
...s of electricity: static and current...  
...ricity builds up in one place...  
...place to another.

**LEVEL 1: QUESTION 1**  
Electricity is the movement of tiny particles called \_\_\_\_.

<b>J</b> Protons	<b>A</b> Neutrons
<b>F</b> Electrons	<b>D</b> Cistrons

**LEVEL 1: QUESTION 2**  
A lightning bolt is an example of \_\_\_\_ electricity.

<b>&lt;</b> Current	<b>&gt;</b> Static
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**LEVEL 2: QUESTION 1**  
"Electricity" comes from the Greek word for \_\_\_\_.

<b>A</b> Shock	<b>B</b> Fire
<b>C</b> Current	<b>D</b> Amber

**LEVEL 1: QUESTION 3**  
The \_\_\_\_ is what is being transferred in electricity.

**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**  
\_\_\_\_ are negatively charged and orbit the nucleus.

<b>A</b> Nuclei	<b>B</b> Neutrons
<b>C</b> Electrons	<b>D</b> Protons

**RECORDING SHEET**  
LEVEL 1

Q1	Q2	Q3	Q4
#	#	#	#

**LEVEL 4: QUESTION 2**  
\_\_\_\_ that...

<b>A</b>	<b>C</b>
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**LEVEL 3 DECODER**

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

**LEVEL 3: QUESTION 1**  
\_\_\_\_ are the building block of matter.

<b>A</b> Currents	<b>T</b> Electrons
<b>H</b> Atoms	<b>L</b> Cells

**LEVEL 3: QUESTION 2**  
\_\_\_\_ are any sort of material that doesn't carry electricity.

<b>E</b> Conductors	<b>M</b> Breakers
<b>Y</b> Insulators	<b>B</b> Fuses

**LEVEL 3: QUESTION 3**  
What is the energy used by a circuit measured in?

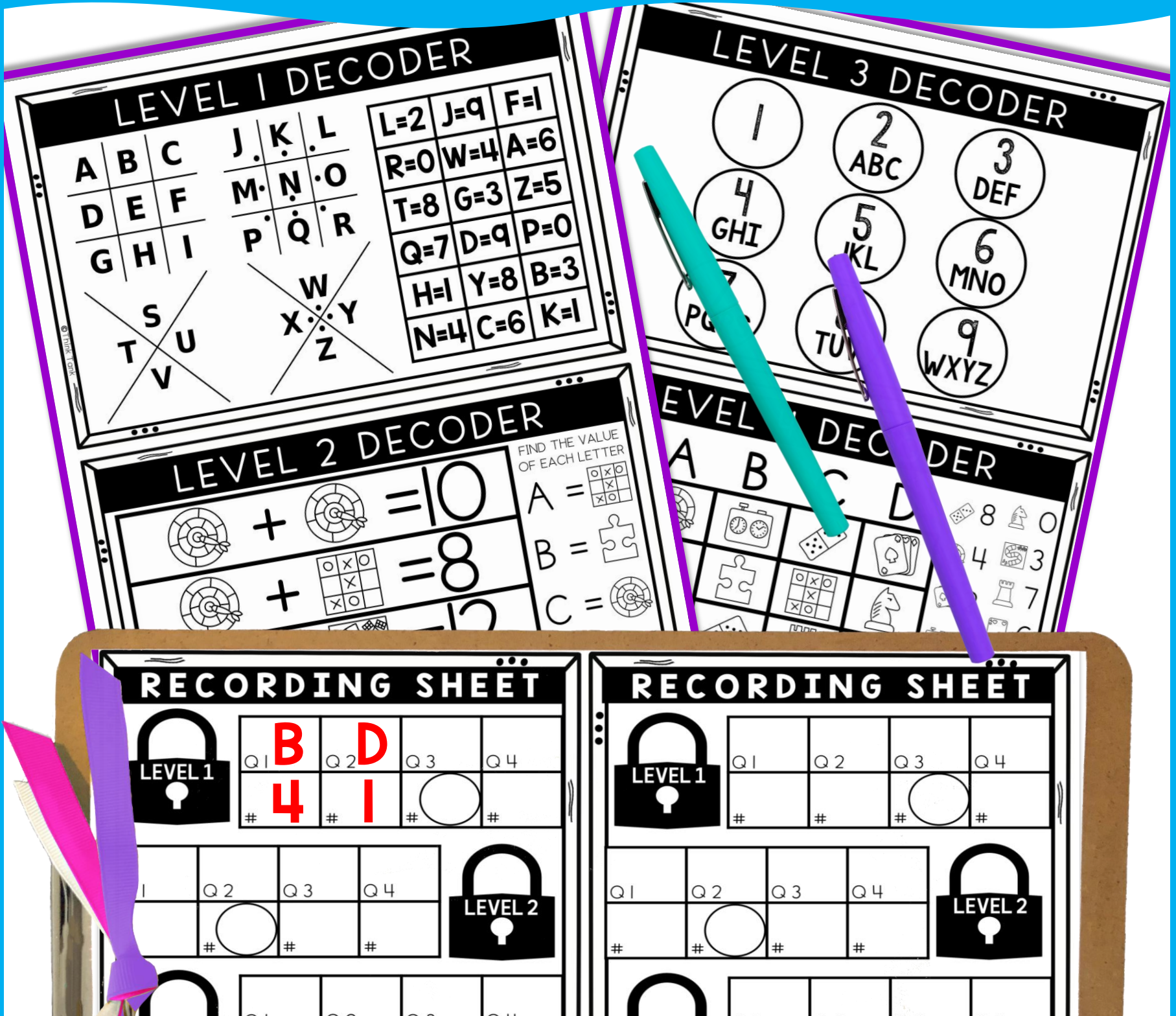
<b>I</b> Joules	<b>J</b>
-----------------	----------

**LEVEL 4 DECODER**

Q1	A	B	C	D	8	9	0
Q2					4		3
Q3					2		7

**LEVEL 3: QUESTION 4**  
Protons are \_\_\_\_ charged.


# 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.

### ELECTRICITY

Electricity is the movement of tiny particles called electrons. The movement of those electrons is known as electric current. It is used around the world to power homes, businesses, tv's, computers, etc. Scientist William Gilbert coined the term "electricity" (from the Greek word for "amber") in 1660. He used the word to describe the idea of charges. The first practical advancements with electricity didn't occur until the 19th century. Benjamin Franklin, Graham Bell, Thomas Edison, and Albert Einstein were just some of the scientists that worked tirelessly to understand how electricity works.

### 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
<del>T</del>	<del>S</del>	<del>U</del>	<del>X</del>	<del>W</del>	<del>Y</del>	Q=7	D=9	P=0
						H=1	Y=8	B=3
						N=4	C=6	K=1

### LEVEL 1: QUESTION 1

Electricity is the movement of tiny particles called \_\_\_\_.

Protons

Neutrons

Electrons

Cistrons

### LEVEL 1: QUESTION 2

A lightning bolt is made of \_\_\_\_ electricity.

Current

Static

### LEVEL 1: QUESTION 3

The \_\_\_\_ is what is being powered by electricity.

Plate






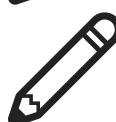
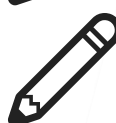
### LEVEL 1: QUESTION 4

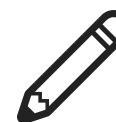



What is the name of the particle in an atom that has a positive charge?

# 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

