

GENETICS AND DNA

ESCAPE ROOM

GENETICS AND DNA
ound in the human body, and they are what make each human...
born, genes are passed down from the parents to the...
ins how babies get some of their parents' features but not...

oxyribonucleic acid, and it is unique to each human. It is a...
cell of the human body. DNA is made up of molecules calle...
our types of bases or nucleotides: adenine (A), thymine (T)...
ine (G). DNA is composed of nucleotides in a specific orde...
codon and they all connect together like a chain. There ar...
in DNA held together by phosphate and deoxyribose. Ea...
nce (order) of the nucleotide letters, and this determines h...
ent from another. A double helix is the name given to th...

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=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 3 DECODER

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

LEVEL 1: QUESTION 2
People usually have how many copies of each gene?

<input type="checkbox"/>	One	<input checked="" type="checkbox"/>	Two
<input type="checkbox"/>	Three	<input type="checkbox"/>	Four

LEVEL 2 DECODER

+ = 10
+ = 8

FIND THE VALUE OF EACH LETTER
A =

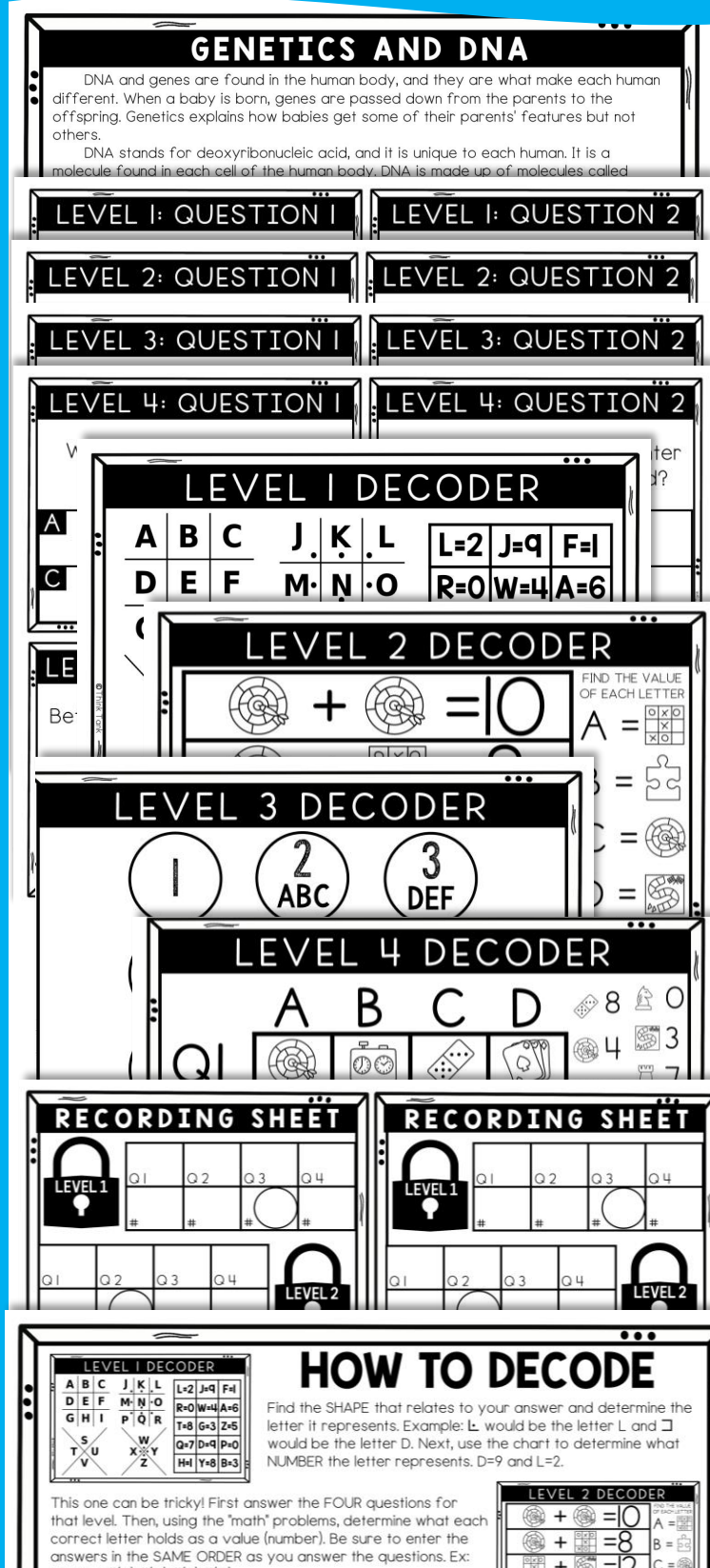
RECORDING SHEET

LEVEL 1	Q1	Q2	Q3	
	#	#	#	
LEVEL 2	Q1	Q2	Q3	Q4
	#	#	#	#

THINK TANK

Antacid
Aortas

WHAT'S INCLUDED?



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



16 QUESTIONS

GENETICS AND DNA
...nd in the human body, and they are
...orn, genes are passed down from
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...xyribonucleic acid, and it is unique to
...cell of the human body. DNA is made
...ur types of bases or nucleotides: c
...ne (G). DNA is composed of nucleoti
...don and they all connect together
...held together by phosphate
...the nucleotide letters,
...double helix is

LEVEL 1: QUESTION 1
DNA stands for deoxyribonucleic ----.

A Argon	B Antacid
C Acid	D Autosomes

LEVEL 1: QUESTION 2
People usually have ---- copies of each

A One	B Two
C Three	D Four

LEVEL 2: QUESTION 1
There are thousands of letters in DNA held together by ---- and deoxyribose.

A Ligaments	B Phosphate
C Marrow	D Carbon dioxide

LEVEL 1: QUESTION 3
There are about how many ---- person?

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
DNA has how many types of bases or nucleotides?

A Two	B Four
C Six	D Eight

RECORDING SHEET

LEVEL 1	Q1	Q2	Q3	Q4
#	#	#	○	#

LEVEL 4: QUESTION 2
Who ----

A Gre	B Me
C Me	D Gre

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
What is each variation of a gene called?

A Vestibule	T Allele
H Article	L Transom

LEVEL 3: QUESTION 2
What is the spiral shape of DNA molecules called?

E Octavian	M Double helix
Y Double tree	B Triple Ellipse

LEVEL 3: QUESTION 3
What are every three letters of DNA called?

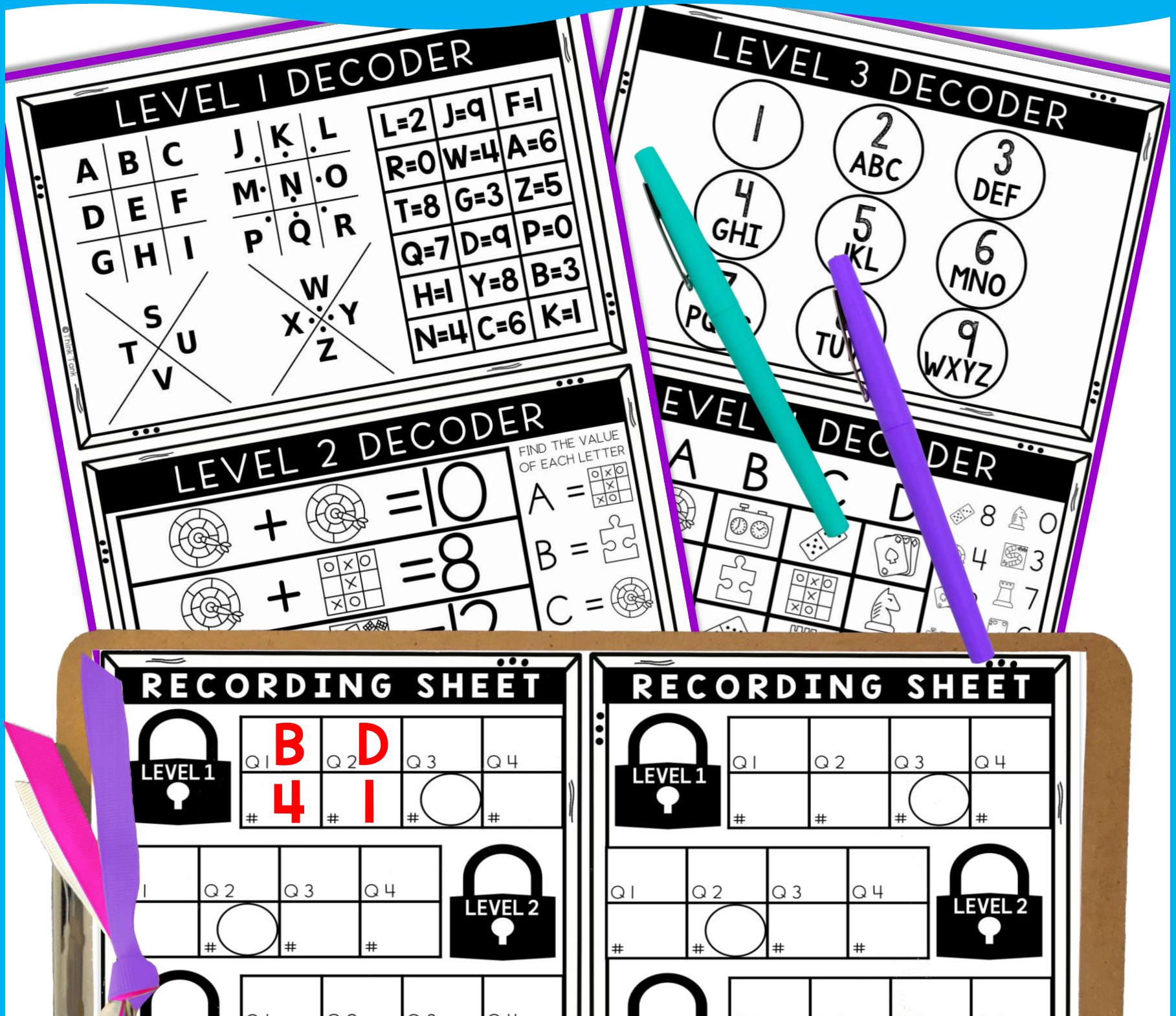
I Codex	J
---------	---

LEVEL 3: QUESTION 4
Each human has ---- pairs of chromos

LEVEL 4 DECODER

Q1	A	B	C	D	8	9	0
Q2	8	9	0	1	2	3	4
Q3	4	5	6	7	8	9	0

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.

GENETICS AND

DNA and genes are found in the human body, and different. When a baby is born, genes are passed down to offspring. Genetics explains how babies get some of their traits from their parents.

DNA stands for deoxyribonucleic acid, and it is a long molecule found in each cell of the human body. DNA is made up of nucleotides. DNA has four types of bases or nucleotides: adenine (A), thymine (T), cytosine (C), and guanine (G). DNA is composed of nucleotides.

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			W X Y			Q=7	D=9	P=0
V			Z			H=1	Y=8	B=3
						N=4	C=6	K=1

LEVEL 1: QUESTION 1

DNA stands for deoxyribonucleic _____.

<input type="checkbox"/> Argon	<input checked="" type="checkbox"/> A	<input type="checkbox"/> Antacid
<input type="checkbox"/> Acid	<input type="checkbox"/> Autosomes	

LEVEL 1: Q

People usually have _____ copies of _____.

<input type="checkbox"/> One
<input checked="" type="checkbox"/> Three

LEVEL 1: QUESTION 3

There are about how many genes in each person?

<input checked="" type="checkbox"/> 50,000	<input type="checkbox"/> 1
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LEVEL 1: QU




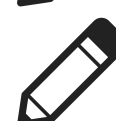
What are genes _____?

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

