

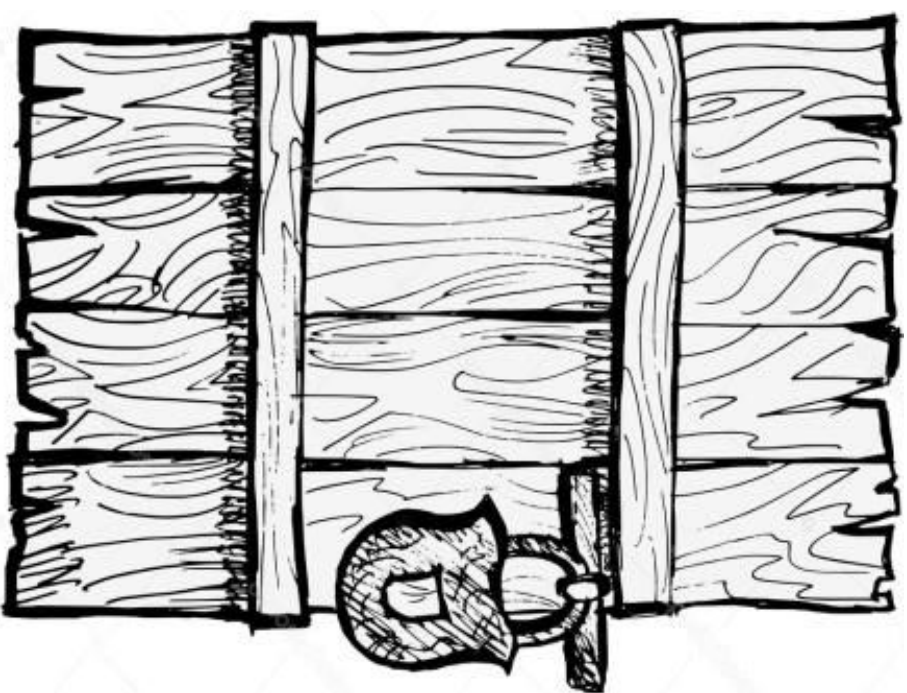


ESCAPE ROOM EDU

BALANCING

CHEMICAL

EQUATIONS



Digital Link: <http://bit.ly/2AMwida>



Mission Objective

A MAD CHEMIST TRAPPED YOUR WHOLE CLASS IN THE CLASSROOM. IN ORDER TO ESCAPE, YOU MUST USE YOUR KNOWLEDGE OF CHEMICAL EQUATIONS TO CONVINCHE HIM TO LET YOU GO. ANSWER THE QUESTIONS AT EACH LEVEL AND BE SURE TO RECORD EACH ANSWER. ONCE ALL LEVELS ARE COMPLETE, RETRIEVE THE COMPLETION CODE TO BREAK OUT AND SAVE THE DAY. YOU MUST HURRY AND ESCAPE BEFORE YOU REMAIN TRAPPED IN CLASS FOREVER!





LEVEL 1

Q1

4, 0, 2

B

What are the missing coefficients for the following equation:



C

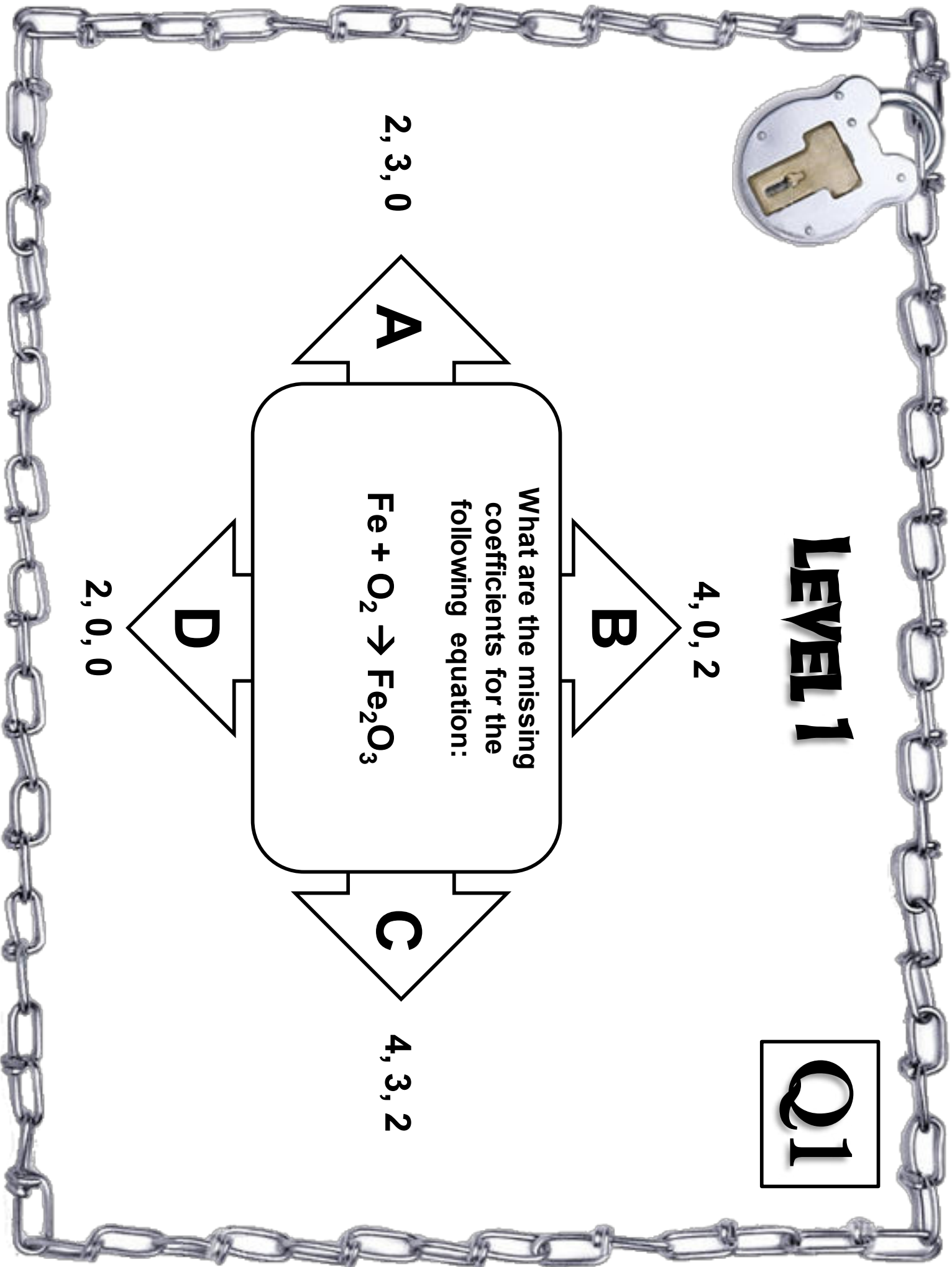
4, 3, 2

A

2, 3, 0

D

2, 0, 0





LEVEL 1

Q2

1, 1, 1, 2

B

What are the missing coefficients for the following equation:



A

1, 1, 2, 2

C

2, 1, 1, 2

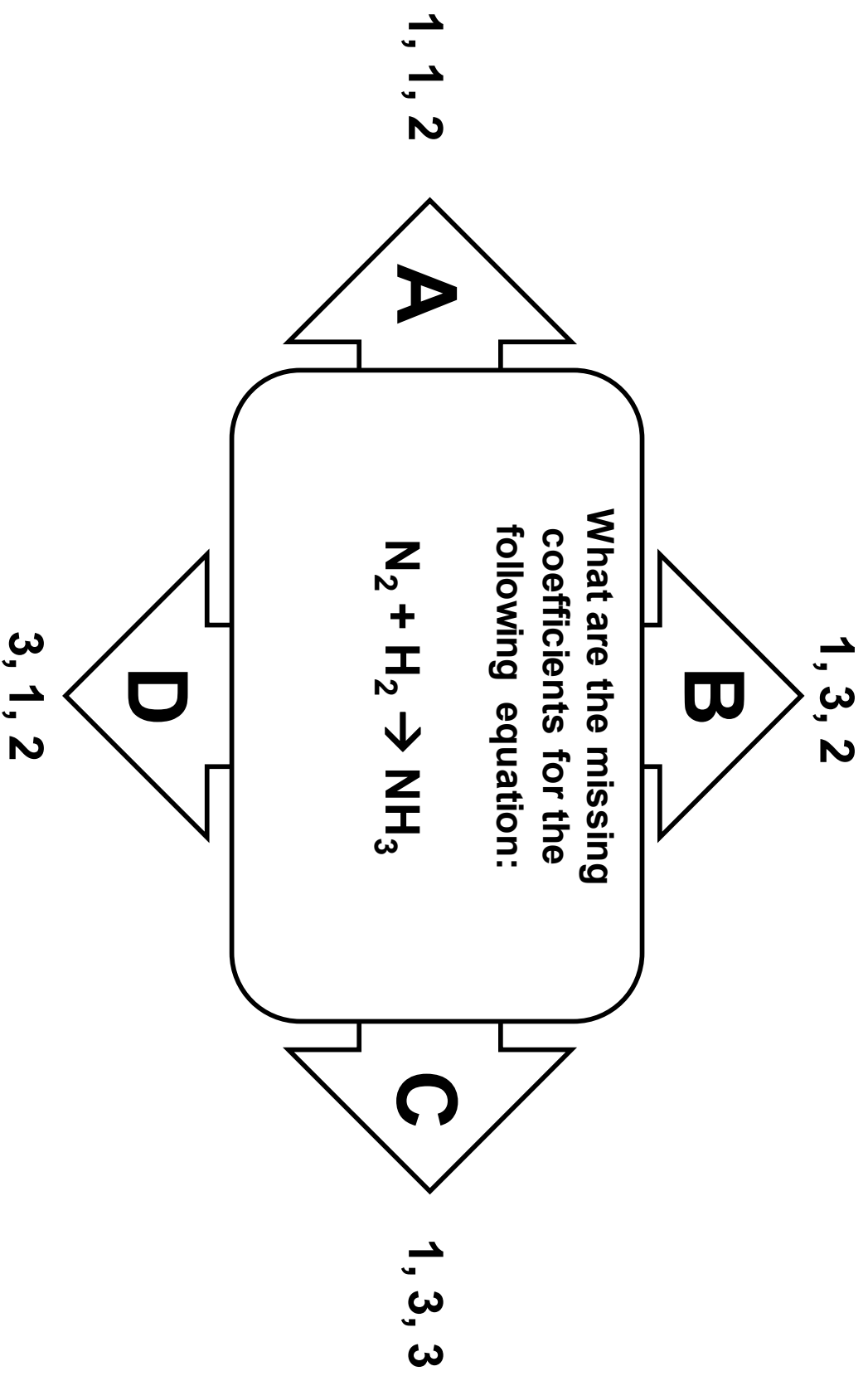
D

2, 2, 2, 1



LEVEL 1

Q3





LEVEL 1

Q4

2, 1, 2, 3

B

What are the missing coefficients for the following equation:



C

1, 3, 1, 3

A

4, 3, 2, 6

D

3, 4, 6, 2



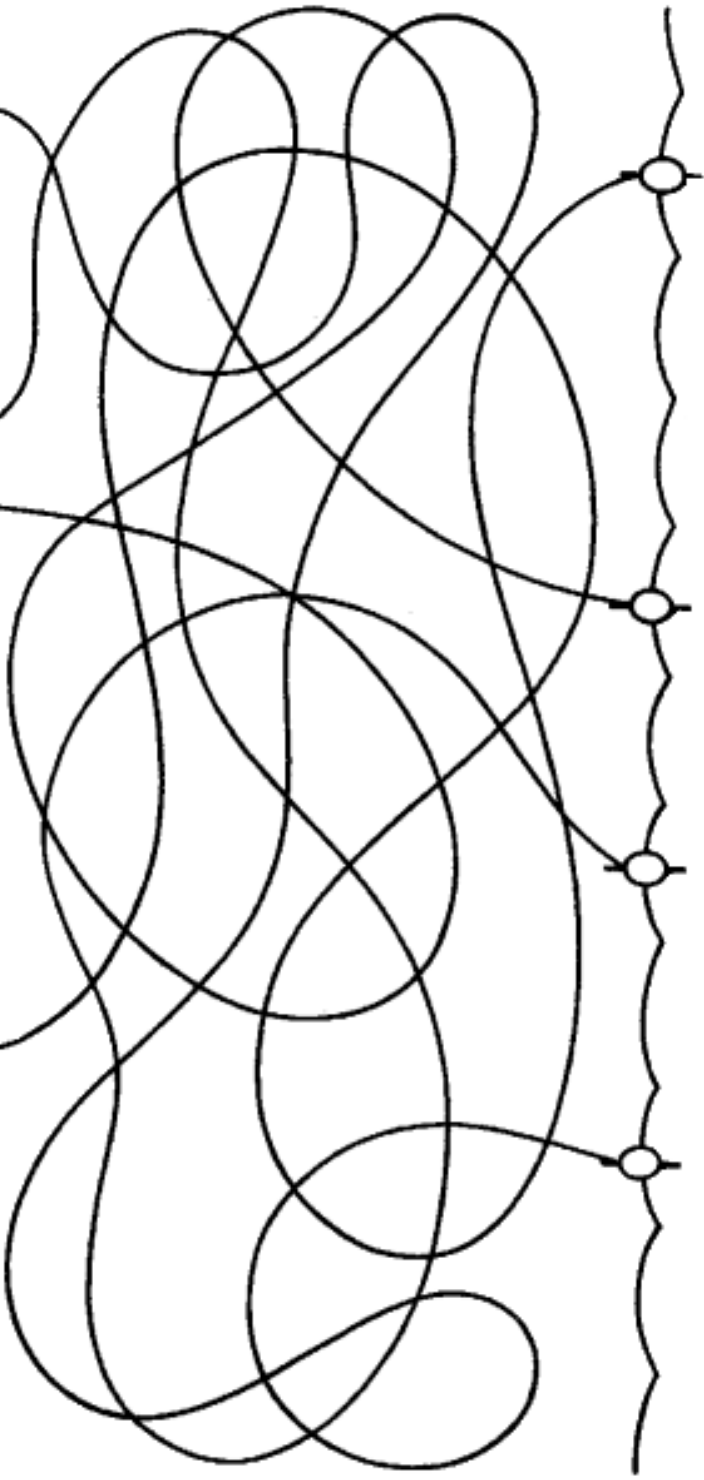
LEVEL 1

A

B

C

D



1

2

3

4

A
 $Al + Fe_3N_2 \rightarrow AlN + Fe$
 1, 2, 1, 2

B
 $NaCl + F_2 \rightarrow NaF + Cl_2$
 2, 2, 3

C
 $Ag_2O \rightarrow Ag + O_2$
 1, 12, 8

D
 $2, 1, 2, 3$

E
 $H_2 + HOEN \rightarrow H_2O + HN$
 2, 4, 1

F
 $CH_4 + O_2 \rightarrow CO_2 + H_2O$
 1, 5, 2, 2, 2, 1

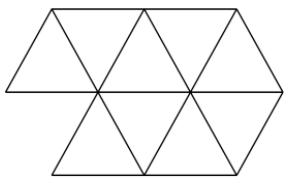
G
 $H_2O + O_2 \rightarrow H_2O_2$
 4, 5, 2

H
 $S_8 + O_2 \rightarrow SO_3$
 2, 1, 2, 1

I
 $KClO_3 \rightarrow KCl + O_2$
 2, 1, 2, 3

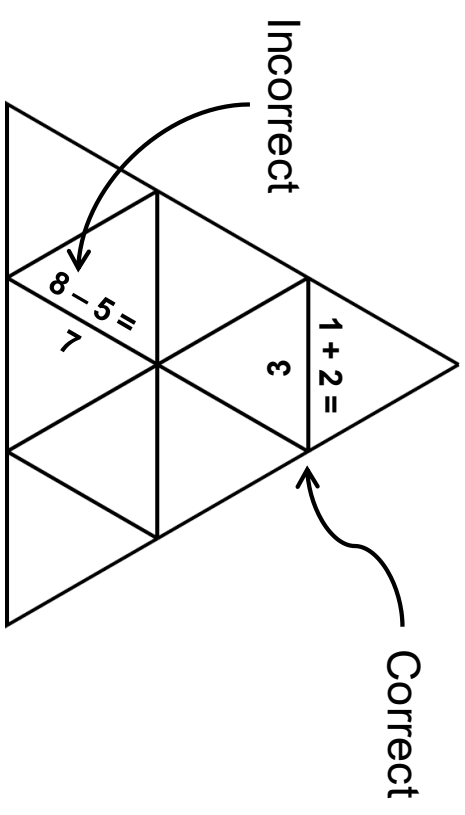


LEVEL 2



apart.

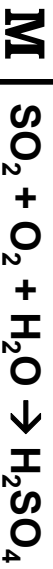
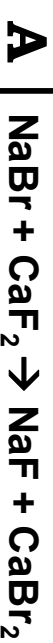
2. Solve the 9 problems.
3. Build a triangle so that each edge has the same answers facing each other.





LEVEL 3

Solve each problem and write the matching letter on the blank above the answer.



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2, 3, 1, 6 1, 5, 1, 4 2, 3, 6, 1 4, 4, 1, 8

4, 4, 1, 8 2, 1, 2, 1 1, 3, 1, 3 1, 5, 3, 4

2, 1, 2, 2 1, 5, 3, 4

2, 1, 4, 1 1, 5, 1, 4 6, 6, 1, 6

4, 3, 1, 12 6, 6, 1, 6 2, 1, 2, 1

2, 3, 6, 1 1, 2, 2, 1 4, 4, 1, 8 1, 5, 3, 4



MAKE YOUR ESCAPE!

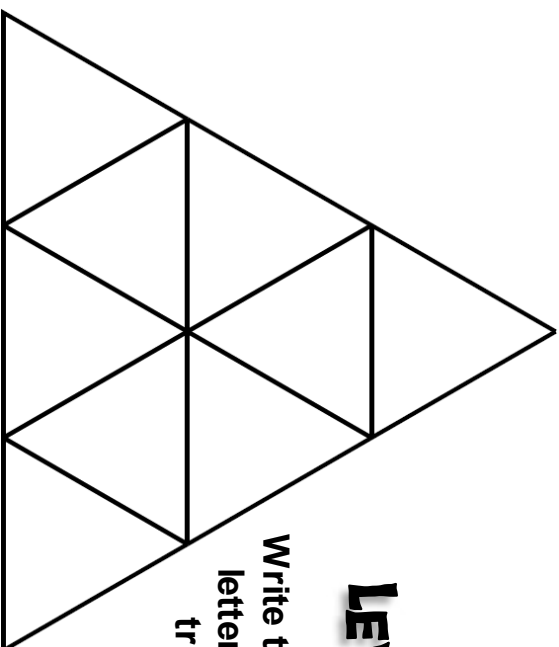
BALANCING CHEMICAL EQUATIONS

Name _____

Digital Link: bit.ly/2AMwida

LEVEL 1

Codes	Answers			
	Q1	Q2	Q3	Q4
Digit 1		Digit 2	Digit 3	Digit 4



LEVEL 2

Write the correct letter in each triangle

LEVEL 3

What did the limestone say to the geologist?

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Congratulations!

Enter the completion code to make your escape!

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