

Logic

Escape Room

by

*Gypsy
Gameschooler*

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OVERVIEW

Make your kids' Logic Unit Study unforgettable with our Logic Escape Room! Featuring 8 puzzle challenges that reveal a final secret code, this fun and engaging printable game will be a huge hit for kids ages 8 and up. Whether you're planning a party for your debate team, a co-op game day, a sleepover, or just need some rainy-day activities for family game night, this logic game is perfect for you.

Looking for an escape room experience at home without all the fuss? Look no further! Our printable escape room is perfect for you. With no complicated shapes to cut out, and no folding or taping required, our low-prep escape room allows you to experience the thrill of the escape room right away.

Our escape room game is designed to be easy to set up and play, with no props or complicated instructions required. Kids can complete the puzzles individually or in small groups, making it a great activity for classrooms, youth groups, or team-building exercises. With our escape room kit, you'll have everything you need to create an exciting adventure for your little ones from the comfort of your own home.

WHAT'S INCLUDED IN THE INSTANT DOWNLOAD?

PDF game guide (8.5 x 11)

8 puzzle challenges

Recording sheet

Set up instructions

Hint cards

Frequently asked questions

Gameplay: 1-3 hours

Ages: 8+

Number of players: As many as you want!

DIRECTIONS



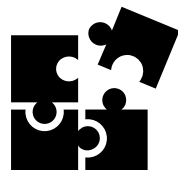
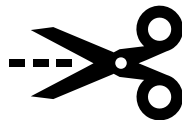
You will need to print page 11 for **EVERY** person or team playing the game. This is the answer recording sheet for the individual puzzles.

Print pages 7-10 for each player, group, or team. Kids **WILL** need to write on the puzzles in order to determine their answers. Save paper by partnering kids up. Some of the puzzles cannot be done visually, so each kid or team will need their own “set” printed.



Preview the puzzles and answers just in case you need to offer help or guidance. The kids **MIGHT** struggle the first time they see the puzzles...that’s OK, that’s the goal, it is after all an escape room! Let them think it out for a bit before you help them.

Once all 8 puzzles and answer recording sheets have been printed, read the “mission” out loud on page 6 and review the directions. Next, let the fun begin! Let kids know that they can complete the puzzles in **ANY order**. Just make sure they record their answers in the correct area.



PRINTING THE GAME

Make sure you **download** the file to your computer **FIRST**, then **print**. Sometimes your computer opens the PDF in the default web browser (which makes black boxes appear around images when you print). It happens when trying to print from the preview URL when it opens in a new tab. Make sure you are using the latest version of Adobe Acrobat Reader (FREE) – rather than a preview application on Macs or web browsers. Grab Adobe here: <https://get.adobe.com/reader/>

F.A.Q.

How long does this activity take to complete?

It really depends on a lot of things. Estimated completion time is 1-3 hours but it's based on the kids' puzzle skills, group size, and age. We recommend ages 8+.

How many kids can play at once?

Kids can play individually, with friends or siblings, or in large groups. There really is no limit to the number of players.

What if the kids get stuck on one of the puzzles?

First off, let them think for a bit! This is where critical thinking skills come in. If they get stuck, you can give them a small hint to guide them. It is advised that you preview the puzzles first, so you understand how to complete them.

Where do kids start?

Kids can start on any puzzles and complete the puzzles in ANY order!

How do you know if their answers are correct?

There is an answer key provided in the PDF.

How do I set up the activity?

Just print, cut in half, and play! Everything you need is included in your download. You don't need locks, envelopes, or special equipment. You can hang or hide the puzzles or just spread them out on the kitchen table.

Do I have to print out the game materials for every kid?

Yes and no. Each player or "team" will need their own "set" of puzzles so that they can write on the pages.

DIRECTIONS

1

WORD SCRAMBLE

Unscramble the letters below. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the secret word.

1. LAAFLCY

2. SBIA

3. ONUSD

4. NAARTWSM

5. RIOENC

SECRET WORD:

There are 8 puzzles to solve in order to determine the 4-digit code to escape. The bottom of each puzzle will give you a “secret word” based on your puzzle answers. Write the secret word on your answer sheet for each puzzle.

Once all secret words have been recorded on your answer sheet, use the decoder to determine what NUMBER each letter is represented by based on the gray-shaded boxes. The final 4-digit code will be FOUR numbers in the order in which they appear on your answer sheet.

SECRET MISSION

You've always loved puzzles and mysteries, so when you were introduced to logical arguments and fallacies, you were hooked. Little did you know, your newfound knowledge would be put to the test in the most unexpected way.

One day, you wander into an old, abandoned building on a dare from your friends. The moment you step inside, the door slams shut behind you.



Panic sets in, but you quickly remind yourself to stay calm. The room you're in is filled with strange symbols and cryptic messages. It's like something out of a movie, and you realize you need to use your wits to get out.

You start examining the walls and find a series of riddles and puzzles.

1

WORD SCRAMBLE

Unscramble the letters below. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the secret word.

1. LAAFLCY

2. SBIA

3. ONUSD

4. NAARTWSM

5. RIOENG

SECRET WORD:

2

REBUS PUZZLES

Use the images to determine the word. Spell them correctly in the boxes below. Then, unscramble the letters in the gray-shaded boxes.



B=U +



-RO

--	--	--	--	--	--	--	--



E=V +I+



-UN + I +



X=N

--	--	--	--	--	--	--	--



Q=G

--	--	--	--	--	--	--	--



H=D + Y

--	--	--	--	--	--	--	--

SECRET WORD:

3

WORD SCRAMBLE

Unscramble the letters below. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the secret word.

1. ONMMIEH

2. RIIRUCCAL

3. MNOOMC

4. PRISPLEY

5. IEEMRPS

SECRET WORD:

4

POLYBIUS SQUARE

Use the numbers to determine what letter each combination represents. If the box is blank, determine what letter is missing. HINT:  then 
You first have to use the grid on the left to decipher the clues below. You will end up with one answer from the words at the bottom.

	1	2	3	4	5
1	B		A	E	C
2	I/J	G		K	F
3	L	P	N	M	
4		R	T	Q	U
5	Y	V	Z		X

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

The answer has 1 3, 4 1, 1 4, 1 4
3 4, 3 2, 3 1, 3 3 3 3, 1 2, 3 3, 4 1
1 3, 4 1, 3 4, 3 4, 4 1, 2 4, 1 4

The answer does not 1 4, 3 4, 3 1, 2 4, 3 4
4 5, 1 2, 3 4, 3 2 3 1



Appeal

Feminam

Authority

Quoque

Abusive

Composition

5

ATBASH ALPHABET

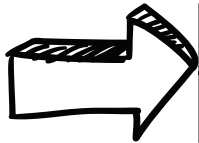
Use the decoder below to determine the clues.

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

Gsv zmhdvi szh zg ovzhg hvevm ovggvih.

Ivnlev zoo dliwh gszg hgzig drgs S.

Gsv zmhdvi wlvh mlg vmw drgs z B.



Herring	Association	Validity
Slope	Effect	Equivalency

6

REBUS PUZZLE

Use the images to determine the word. Spell them correctly in the boxes below. Then, unscramble the letters in the gray-shaded boxes.



G=F



T=S +



N=T

I+  -AN+  -UG+I+  =A=I



-PA+



Y=E



E=C

SECRET WORD:

7

POLYBIUS SQUARE

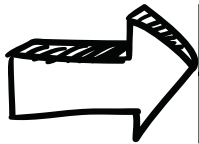
Use the numbers to determine what letter each combination represents. If the box is blank, determine what letter is missing. HINT: ➡ then ↓
You first have to use the grid on the left to decipher the clues below. You will end up with one answer from the words at the bottom.

	1	2	3	4	5
1	C	E	D	B	
2	F	K	I		G
3	M		L	P	N
4	U	Q		R	S
5		Z	X	V	Y

Eliminate 1 5, 2 3, 4 4, 3 1, 5 4
3 4, 4 2, 5 1, 3 4 4 1, 2 1, 5 2, 3 2, 5 3
1 5, 3 2, 3 4, 4 2 3 2.

Eliminate 1 5, 2 3, 4 4, 3 1, 5 4
3 4, 4 2, 5 1, 3 4 5 4, 3 4, 5 1, 4 4, 3 4
1 5, 3 2, 3 4, 4 2 1 1.

The answer 3 1, 2 3, 2 1, 5 4 5 3, 2 3, 3 4
4 4, 4 2, 5 5, 1 3, 2 1 1 5, 3 2, 3 4, 4 2
"4 4, 3 2, 5 3, 5 2."



Affirming

Begging

Abductive

Intrinsic

Circularity

Correlation

8

ATBASH ALPHABET

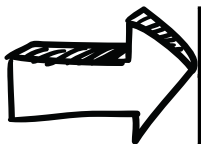
Use the decoder below to determine the clues.

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

Vornrmzgv dliwh drgs nliv gszm mrmv ovggvih.

Gsv zmhdvi wlvh mlg hgzig drgs z J.

Gsv hvxivg dliw isbnvh drgs "wvmg."



Consequent

Question

Argument

Descriptive

Dependency

Soundness

SECRET WORD RECORDER

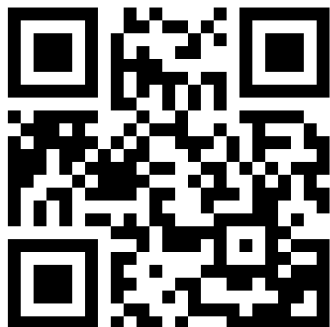


Place your final answers to each puzzle in the boxes below. Then, use the gray-shaded boxes to reveal the 4-digit combination. The 4-digit combination will be revealed in the same order in which they appear on your answer grid.

1											
2											
3											
4											
5											
6											
7											
8											

Eliminate all odd numbers.

Eliminate the highest remaining number.



Scan the QR code to check your answer!

A=4	J=4	S=4
B=6	K=6	T=6
C=3	L=3	U=3
D=1	M=1	V=1
E=2	N=2	W=2
F=9	O=9	X=9
G=7	P=7	Y=7
H=5	Q=5	Z=5
I=8	R=8	

4-DIGIT CODE



Hints

For parents/teachers only!
Use only as needed!

**As an extra hint, all words are
found within the lessons on logic.**

REBUS

To solve a rebus, make sure to look at the word placement, size, and quantity. First, determine what the picture is. Then, follow the letter prompts eliminating, adding or replacing letters. The secret word will be one of the words at the bottom of the puzzle.



D=L

Step 1: Determine the picture. In this case it is a dove.

Step 2: Follow the letter prompts. This rebus tells us to replace the letter "D" with the letter "L". To solve, simply put the new letters together. The answer to this rebus is LOVE.

Puzzle 2 Hints:

Make sure you don't confuse this with effect.

An informal fallacy in which it is assumed that if something large has a property, then so do its constituents.

Someone doesn't have this just by association.

Don't do this to the antecedent, or you'll commit a formal fallacy.

Secret Word: An argument in which if the premises are true, then so must be the conclusion.

Puzzle 6 Hints:

Appealing to this can make people panic and agree with you.

If you generalize in this way, you will commit a logical fallacy.

This premise isn't stated outright.

This fallacy rejects an argument due to its origins.

Secret Word: Post hoc ergo propter hoc

POLYBIUS

Use the numbers to determine what letter each number combination represents. Notice the numbers are in pairs.

HINT: Go RIGHT first, then DOWN

Find where the first and second number intersect on the grid to determine the letter.

If a letter is missing on the grid, use the alphabet to determine the missing letter. Each row has 5 consecutive letters in a random order.

Example: 1 3 = L

Go right 1 and down 3

Example: 2 4 = R

Go right 2 and down 4

Puzzle 4 Hint:

This logical fallacy occurs when an argument is rejected because the person who made it is a woman.

Puzzle 7 Hint:

This type of argument supplies the most likely conclusion.

ATBASH

This is a letter replacement cipher. Use the decoder to determine what letter each given letter represents. Hint: Atbash is simply the alphabet backwards. The answer will be the ONE remaining word found in the list at the bottom.

A=Z

B=Y

C=X

Puzzle 5 Hint:

Someone is not guilty just because they have this with someone unpleasant.

Puzzle 8 Hint:

This is composed of a set of premises and a conclusion.

SCRAMBLE

Unscramble the letters to determine the missing word. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the letters of the secret word. Unscramble the letters to find the secret word.

Puzzle 1 Hints:

1. When making a logical argument, avoid this.
2. Everyone has it, but we try to minimize it.
3. You want your logical arguments to be this.
4. A fallacy in which a position is attacked that was never presented.
5. You don't want to do this to a common cause.

Secret Word: This fallacy establishes the truth of a statement due to popularity.

Puzzle 3 Hints:

1. This fallacy is an attack on the person.
2. Argument in which premises and conclusion are dependent on each other, or synonyms are used.
3. Sometimes two events will have this sort of cause.
4. This kind of slope can be a fallacy.
5. One of the first statements in an argument.

Secret Word: The last part of an argument.

Answers

**For parents/teachers only!
(no need to print)**

1

WORD SCRAMBLE

Unscramble the letters below. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the secret word.

1. LAAFLCY

F	A	L	L	A	C	Y	
B	I	A	S				
S	O	U	N	D			
S	T	R	A	W	M	A	N
I	G	N	O	R	E		

2. SIBA

3. ONUSD

4. NAARTWSM

5. RIOENG

SECRET WORD: BANDWAGON

2

REBUS PUZZLES

Use the images to determine the word. Spell them correctly in the boxes below. Then, unscramble the letters in the gray-shaded boxes.



B=U +



-RO

C A U S E



E=V +I+



-UN + I +



X=N

D I V I S I O N



Q=G

G U I L T



H=D + Y

D E N Y

SECRET WORD:

DEDUCTIVE

3

WORD SCRAMBLE

Unscramble the letters below. Spell the word correctly in the boxes to the right. Then, use the gray-shaded boxes to reveal the secret word.

1. ONMMIEH

2. RIIRUCCAL

3. MNOOMC

4. PRISPLEY

5. IEEMRPS

H	O	M	I	N	E	M	
C	I	R	C	U	L	A	R
C	O	M	M	O	N		
S	L	I	P	P	E	R	Y
P	R	E	M	I	S	E	

SECRET WORD: CONCLUSION

4

POLYBIUS SQUARE

Use the numbers to determine what letter each combination represents. If the box is blank, determine what letter is missing. HINT:  then 
You first have to use the grid on the left to decipher the clues below. You will end up with one answer from the words at the bottom.

	1	2	3	4	5
1	B	D	A	E	C
2	I/J	G	H	K	F
3	L	P	N	M	O
4	S	R	T	Q	U
5	Y	V	Z	W	X

Eliminate words with a Q

The answer has less than nine letters

The answer does not start with A



~~Appeal~~

Feminam

~~Authority~~

~~Quoque~~

~~Abusive~~

~~Composition~~

5

ATBASH ALPHABET

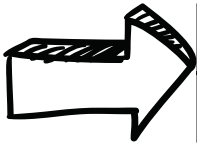
Use the decoder below to determine the clues.

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

The answer has at least seven letters.

Remove all words that start with H.

The answer does not end with a Y.



~~Herring~~

Association

~~Validity~~

~~Slope~~

~~Effect~~

~~Equivalency~~

6

REBUS PUZZLE

Use the images to determine the word. Spell them correctly in the boxes below. Then, unscramble the letters in the gray-shaded boxes.



G=F



T=S +  N=T

F

E

A

R

H

A

S

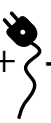
T

Y

I+



-AN+



-UG+

I+

=



=A=

I



-PA+



Y=E



E=C

I

M

P

L

I

C

I

T

G

E

N

E

T

I

C

SECRET WORD:

FALSE

7

POLYBIUS SQUARE

Use the numbers to determine what letter each combination represents. If the box is blank, determine what letter is missing. HINT:  then 
You first have to use the grid on the left to decipher the clues below. You will end up with one answer from the words at the bottom.

	1	2	3	4	5
1	C	E	D	B	A
2	F	K	I/J	H	G
3	M	O	L	P	N
4	U	Q	T	R	S
5	W	Z	X	V	Y

Eliminate words that begin with I.

Eliminate words that start with C.

The answer does not rhyme with "ring."



~~Affirming~~

~~Begging~~

Abductive

~~Intrinsic~~

~~Circularity~~

~~Correlation~~

8

ATBASH ALPHABET

Use the decoder below to determine the clues.

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

Eliminate words with more than nine letters.

The answer does not start with a Q.

The secret word rhymes with "dent."



~~Consequent~~

~~Question~~

Argument

~~Descriptive~~

~~Dependency~~

~~Soundness~~

SECRET WORD RECORDER



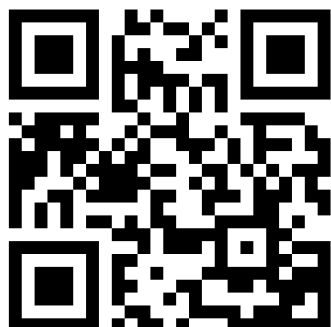
Place your final answers to each puzzle in the boxes below. Then, use the gray-shaded boxes to reveal the 4-digit combination. The 4-digit combination will be revealed in the same order in which they appear on your answer grid.

1	B	A	N	D	W	A	G	O	N		
2	D	E	D	U	C	T	I	V	E		
3	C	O	N	C	L	U	S	I	O	N	
4	F	E	M	I	N	A	M				
5	A	S	S	O	C	I	A	T	I	O	N
6	F	A	L	S	E						
7	A	B	D	U	C	T	I	V	E		
8	A	R	G	U	M	E	N	T			

2 1 8 9 2 4 6 3

Eliminate all odd numbers.

Eliminate the highest remaining number.



Scan the QR code to check your answer!

A=4 J=4 S=4
B=6 K=6 T=6
C=3 L=3 U=3
D=1 M=1 V=1
E=2 N=2 W=2
F=9 O=9 X=9
G=7 P=7 Y=7
H=5 Q=5 Z=5
I=8 R=8

4-DIGIT CODE

2 2 4 6

Did you enjoy this escape room? Make sure you check out my **Logic Unit Study!** Use code **ESCAPEROOM** to get \$5 off the full unit study (which comes with access to my Whodunnit Escape Room, Logical Fallacy Bingo, and WWI Scavenger Hunt).

Thank you!