

Logical Argument

Mini Scavenger Hunt

by

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DIRECTIONS

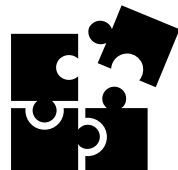
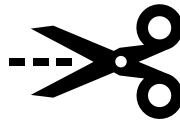


You will need to print page 6 for **EVERY** person or team playing the game. This is the answer recording sheet for the individual reading passages.

Pages 5, 7, and 8 only need to be printed out once. Players won't need to write on any of these sheets, so it's okay to only print them once. However, it might be best to print them single-sided so that everyone can read different passages at the same time. If you have a large group, it would be best to print several copies.



Once all 4 passages and answer recording sheets have been printed, read the "mission" out loud on page 5 and review the directions. Next, let the fun begin! Let kids know that they can complete the passages 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 30-60 minutes but it's based on the kids' reading comprehension 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 questions?

First off, let them think for a bit! This is where reading comprehension skills come in. If they get stuck, they may need to re-read through the cards again. All answers will be found within the cards.

Where do kids start?

Kids can start on any reading passage and complete the passages 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 answer sheet, but they can share the reading passages.

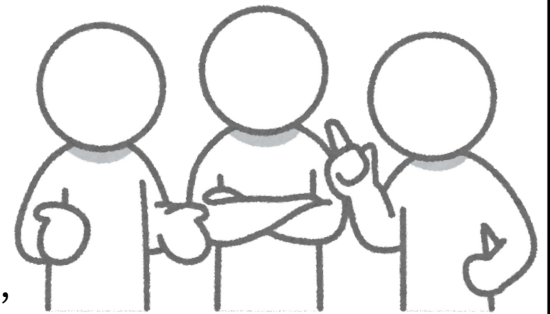
DIRECTIONS

You may start at any of the 4 reading cards. Your job is to determine the code word for each card. The code word will always be revealed on a different card. Then, head to that card to find your next code word question.

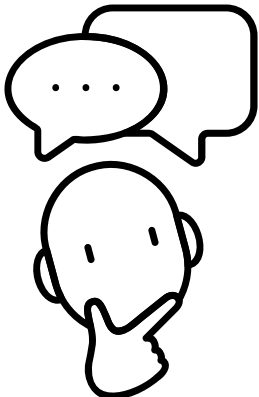
At the bottom of each reading card is a “code word” that must be written on your answer sheet. Be sure you write the code word next to the correct card number, where the question was located. Then, in the found column, write the card # on which the answer can be found. Once all code words have been recorded, unscramble the letters in the gray-shaded boxes to reveal the mystery word. Remember, you are not inferring; you’re seeking text evidence of the information found in the text.

SECRET MISSION

You walk into the community center, the smell of popcorn mingling with the excitement in the air. The debate club is buzzing, a mix of eager faces and nervous laughter. You’ve just joined with your friends, ready to tackle big issues. But tonight, something feels off.



As the debate coach explains the rules, you notice a strange note slipped under the door. “The truth is hidden where arguments collide,” it reads. Curiosity piqued, you gather your friends in a huddle, eyes wide with intrigue.



“Should we investigate?” one whispers, glancing at the door. You nod, adrenaline surging.

Just then, the debate coach says something that catches your attention. “In order to be successful in debate club, you first need to learn about the different kinds of logical arguments and their qualities.”

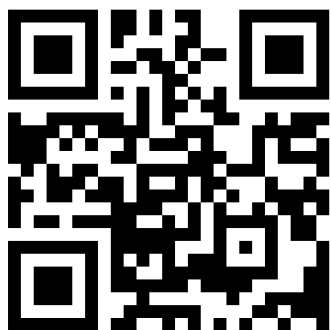
ANSWER SHEET

If the answer is more than one word,
do NOT leave a space between words

FOUND
CARD #

1										
2										
3										
4										

MYSTERY WORD:



Next, use the numbers in the FOUND column in the SAME
order in which you recorded them above and record them
below. Use the QR code to see if you're correct!

4-DIGIT CODE:

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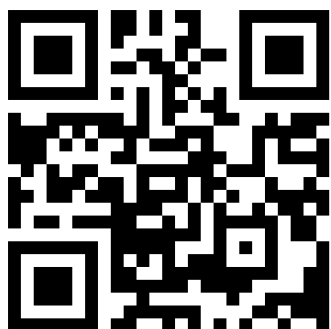
ANSWER SHEET

If the answer is more than one word,
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FOUND
CARD #

1										
2										
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4										

MYSTERY WORD:



Next, use the numbers in the FOUND column in the SAME
order in which you recorded them above and record them
below. Use the QR code to see if you're correct!

4-DIGIT CODE:

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1

A **logical argument** is a set of statements that together provide evidence for another statement. The **premises** are the first statements in an argument. Together, the premises provide evidence for the **conclusion**.

The premises are also known as **antecedents** and the conclusion is also known as the **consequent**. In the statement "If A and B, then C," A and B are the premises and the antecedent while C is the conclusion and the consequent.

CODE WORD: What is a logical argument called when it has true premises and a true conclusion?

2

There are four types of logical arguments: deductive, ampliative, abductive, and inductive. In a **deductive** argument, the truth of the premises guarantees the truth of the conclusion. An **ampliative** argument does not guarantee results this way, but does make them likely.

Abductive and inductive are two types of ampliative arguments. **Abductive** arguments are explanatory, while **inductive** arguments are only observatory. Abductive arguments may also be called inference to the best explanation.

CODE WORD: What is the name for the first part of a logical argument?

3

There are two important qualities to a logical argument: soundness and validity.

An argument is **valid** when the truth of the premises guarantees the truth of the conclusion. Therefore, a good deductive argument is valid.

An argument is **sound** when all the premises and the conclusion are true.

Another way to think of it is that an argument is sound if it is valid and has true premises.

CODE WORD: What would a deductive argument be if it is both valid and sound?

4

Determining whether an argument is good.

Referring to an argument as “good” or “bad” does not make a judgement on morality. Rather, a good deductive argument is both valid and sound.

Good ampliative arguments do not have to be valid and sound, as an ampliative argument does not guarantee the truth of the conclusion from the truth of the premises. However, an ampliative argument is good if the truth of the premises make the conclusion likely.

CODE WORD: What type of argument does not guarantee the truth of the conclusion?

ANSWER SHEET

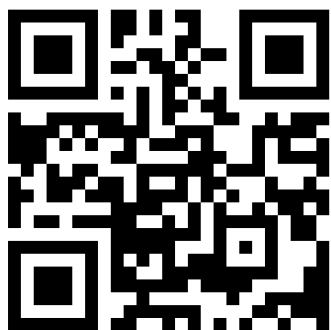
If the answer is more than one word,
do NOT leave a space between words

FOUND
CARD #

1	S	O	U	N	D					
2	P	R	E	M	I	S	E			
3	G	O	O	D						
4	A	M	P	L	I	A	T	I	V	E

3
1
4
2

MYSTERY WORD: ARGUMENT



Next, use the numbers in the FOUND column in the SAME order in which you recorded them above and record them below. Use the QR code to see if you're correct!

4-DIGIT CODE:

3	1	4	2
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Did you enjoy this scavenger hunt? Make sure you check out my Logic Escape Room or my Logic Unit Study for even more fun!

Use code INTRO2 for \$2 off.

Thank you!

