April 2023
Answer Sheet

Welcome to Puzzled Pint!

Give us Feedback!

Tonight

- We're here to help! This is not a competitive event. Ask the Game Control volunteers (GC) for hints as often as you'd like. The goal is to have fun, not to be frustrated!

The Puzzles

- Each puzzle will solve to a short word or phrase. How? That's for you to discover.
- Need a code sheet or solving resources? Check out the Resources page on Puzzled Pint's webpage: http://www.puzzledpint.com/resources/
- You can use anything to help solve: Use your phone, the internet is fair game! Think your brother might have an insight? Give him a call!
- While each month has a theme, you need no special knowledge of the theme to solve.

About Puzzled Pint

- How did tonight go? Fill out the survey with the QR code above.
- We're an all-volunteer organization.
    - Help us run locally: Talk with Game Control about how you can volunteer.
    - Help us run globally: https://www.patreon.com/PuzzledPint

We are always looking for puzzle sets for future months! Check out how you can could write puzzle for Puzzled Pint by going here: http://www.puzzledpint.com/info/author/

Team Name:	**Start Time:**
Team Size:	**End Time:**

Puzzle Answers	
The Path	
Who Knew?	
Laser Maze	
A Transformative Experience	
Meta: Pictographs	
Bonus: Out with the Old (optional)	

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The Path

Originally having nothing to do with permanent vision loss, this code's precursor was developed in 1819 by the French army to allow soldiers to communicate at night without speaking or using candles. In 1824, a fifteen-year-old French schoolboy named Louis (who had lost his vision at age three) learned about the code and reworked it into a more usable, streamlined version which is still in use today.

At right is the field behind Louis' school house. In this field, spell out the name of this code in this code.

Louis loved to go for walks. Never crossing his own path and avoiding the one tree and the seventeen hills, Louis moved like a chess king – left, right, up, down and diagonally – to explore the entire rest of the field.

After you determine Louis' path, stop and consider what a person using this code ultimately possesses.

	U	S	S		
	E	P	7	D	
	T	I	I	T	
A	R	F	G	O	H
E	I	N	S	A	E
G	N	N	E	L	W
	M	O	O	O	
	V	T	R	E	
	S	A	D	L	

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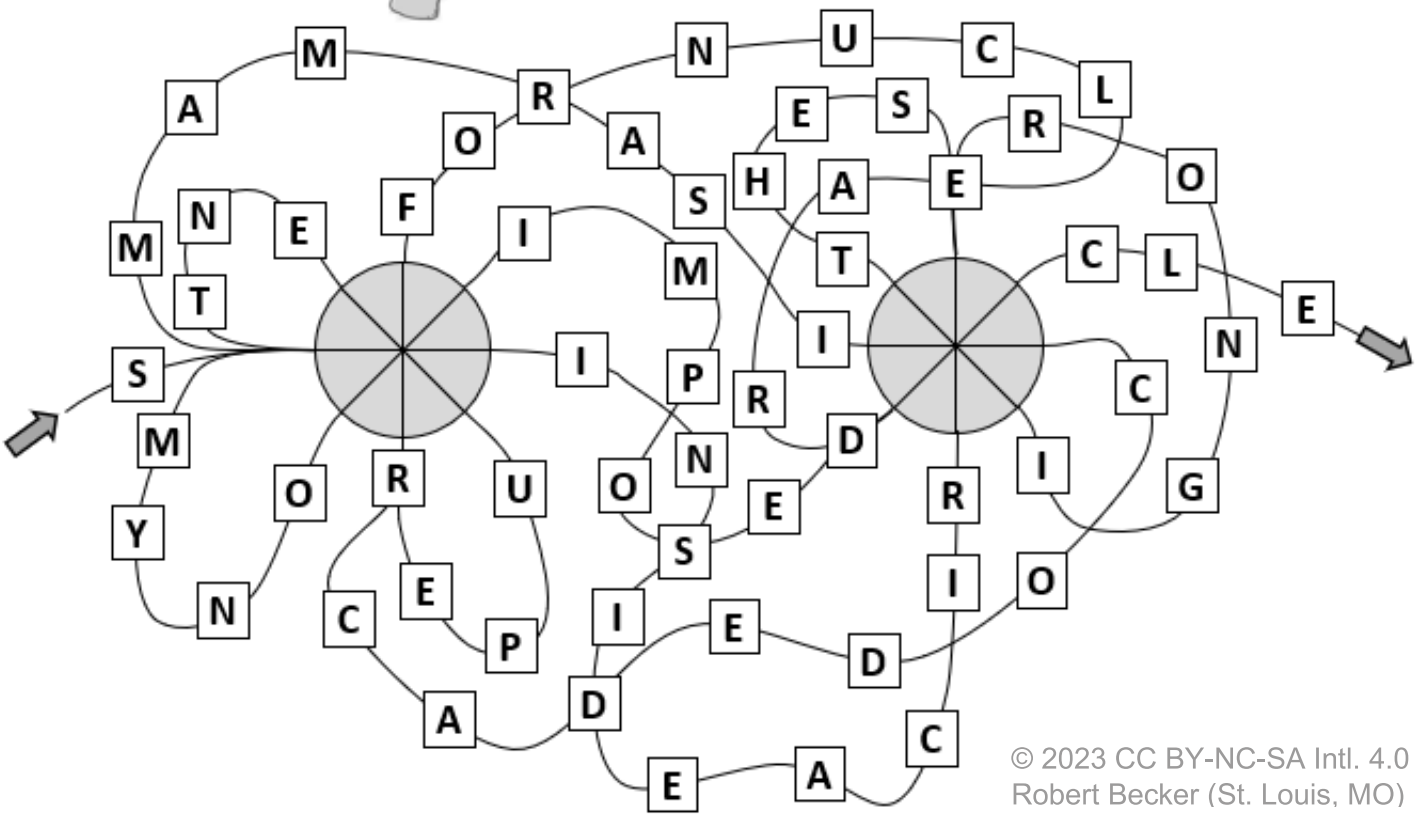
Who Knew?



Originally used with the optical telegraph in 18th century France to communicate over land from tower to tower, a century later, this code was modified into the ship-to-ship and ship-to-shore communication most puzzlers are familiar with. So, check out the map above. Then spell out the name of this code in this code. Be sure to use your turn ***signals*** in those crazy eight-way intersections as you cruise along through this tangled maze!

Perhaps you will discover how this very same code was used in the design of a well-known international icon.*

*This is true!

Solution: | | | | | | | | | |

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Laser Maze

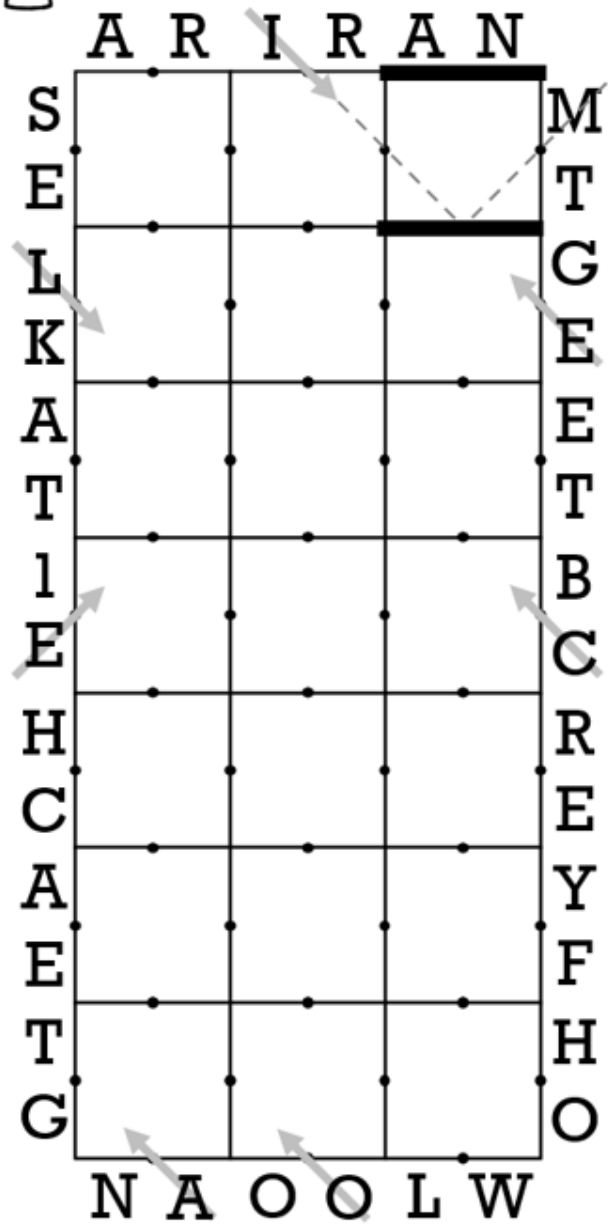
Stop for a moment and consider: In base three, not counting 000, there are precisely 26 numbers that can be represented by a string of three digits (001, 002, 010… 222). That's the exact same number of letters in the English alphabet – which of course makes it very convenient for this rarely-used base-three code!

Populate the grid at right with 0's, 1's, and 2's to spell out the name of this code in this code.

Now, notice how two mirror panels (dark lines) have been drawn in for you near the upper-right corner. Draw in eleven more mirror panels along the edges of the squares so that the number of panels bordering each square agrees with the number (0, 1, or 2) you wrote in that square.

One laser shot (gray arrow and dotted line path in upper-right corner) has been drawn in for you. Light travels at 3.0×10^8 m/s, so it would take that light beam about 150 ps (picoseconds = trillionths of a second) to travel that path from the "I," bouncing off the one mirror into the letter "M." Draw in the remaining laser shots. To keep things simple, each shot is at a precise 45° angle. Some of the shots will take shorter periods to cross the grid; others will take longer.

Just something to think about when you think about this.



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A Transformative Experience

When you think of the North Atlantic Treaty Organization, you might think of a large, assertive group of nations willing to fight to defend one another. This group also has a code named after it. Spell out the name of this code in this code, then complete the transformations below using only real words and names. A few linked letters may help you along the way.

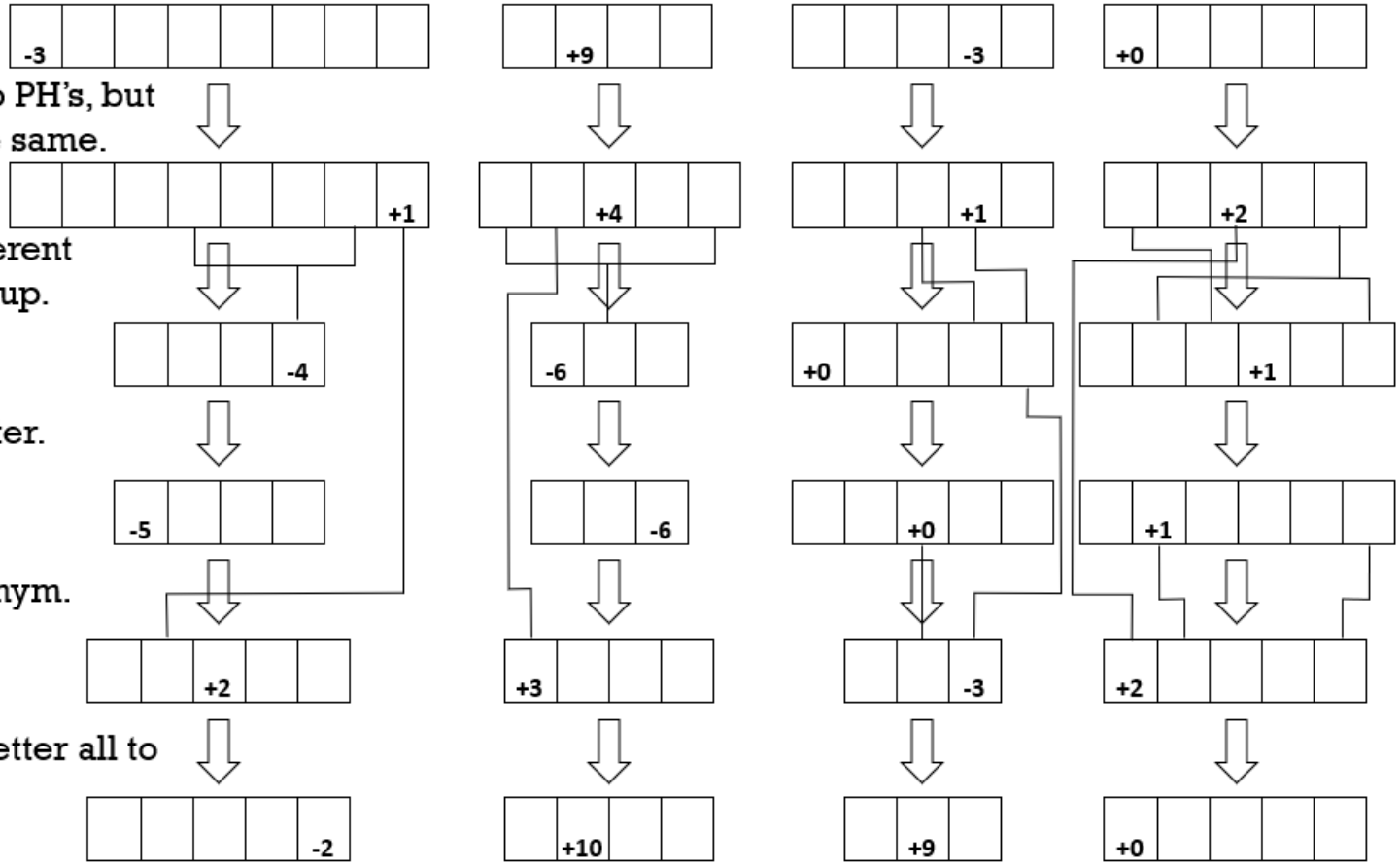
First, change all the F's to PH's, but keep everything else the same.

Second, change to a different member of the same group.

Third, change the last letter.

Fourth, change to a synonym.

Finally, change the first letter all to the same letter.



If done correctly, the final four words arranged alphabetically mean "group," "large," "assertive," and "fight," respectively. Good job. You ***shifted*** your way through that quite nicely. If you've accomplished all that, then…