



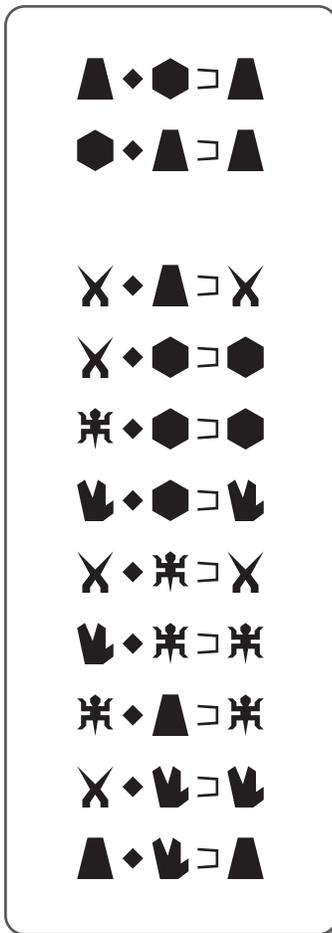
UNLOCK THE CHAMBER

Puzzle 1 • Page 1 of 4

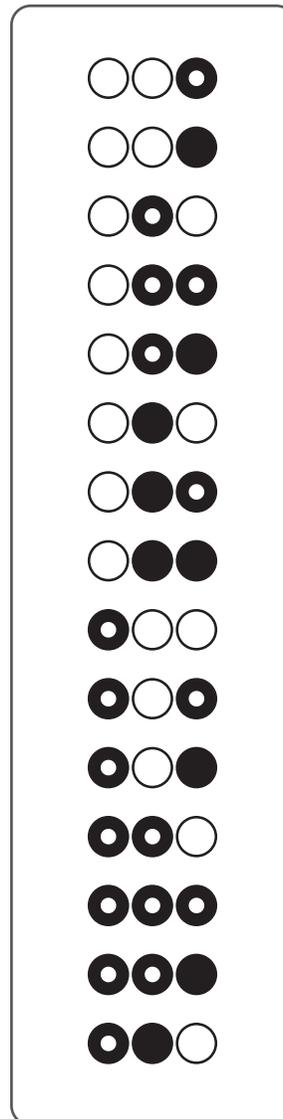
You join Dr. Jones at the locked door. The surrounding walls have drawings that feature three-armed creatures with three fingers on each appendage. “Perhaps these are the gods of this primitive civilization,” Dr. Jones muses with wide-eyed wonder.

The key to unlocking the chamber appears to be a four-sided device. Dr. Jones hands you a stack of tablets. “We found these nearby and think they might explain how to interpret the symbols on the device.”

Tablet 1



Tablet 2





UNLOCK THE CHAMBER

Tablet 3

| | | | | | | |
|--|-----|-----|-----|-----|-----|--|
| | | | | | | |
| | ○●○ | ●○○ | ●○● | ○●● | ○●○ | |
| | ○○○ | ●○○ | ○○○ | ●○○ | ○●○ | |
| | ○●● | ○○○ | ○○● | ○○● | ●○○ | |
| | ○○○ | ○○○ | ○○○ | ○●○ | ○○○ | |
| | ●●○ | ●●○ | ○●○ | ●○○ | ●○○ | |
| | | | | | | |

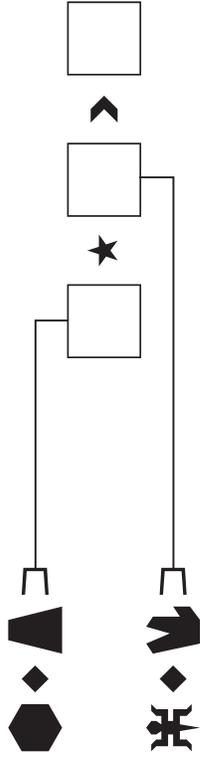
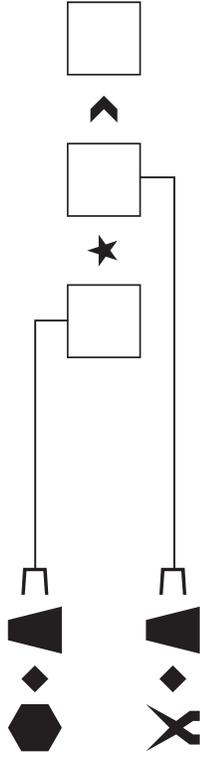
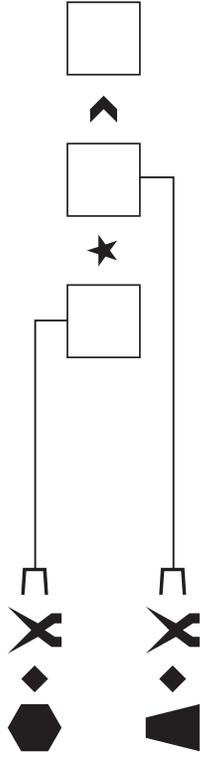
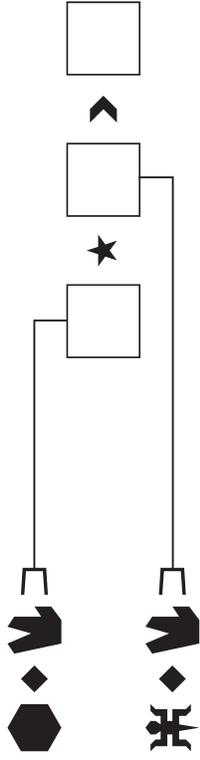
Tablet 4

| | | | | | | |
|--|---|--|---|---|---|---|
| | ★ | | > | ● | ○ | ○ |
| | ★ | | > | ○ | ○ | ○ |
| | ★ | | > | ○ | ○ | ○ |
| | ★ | | > | ○ | ● | ○ |
| | ★ | | > | ○ | ○ | ○ |
| | ★ | | > | ○ | ○ | ● |

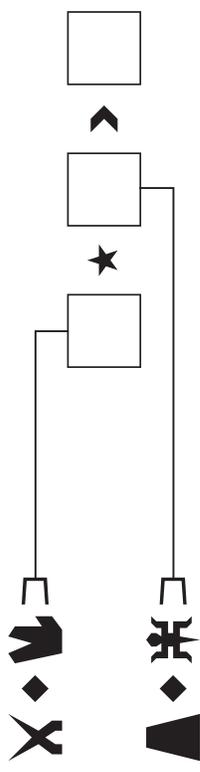
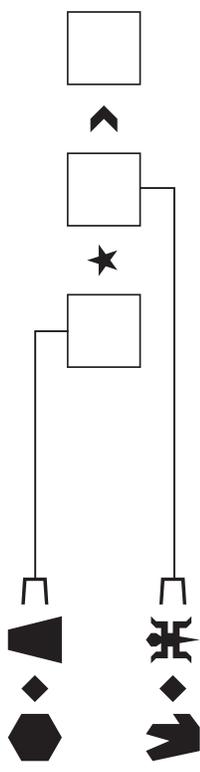
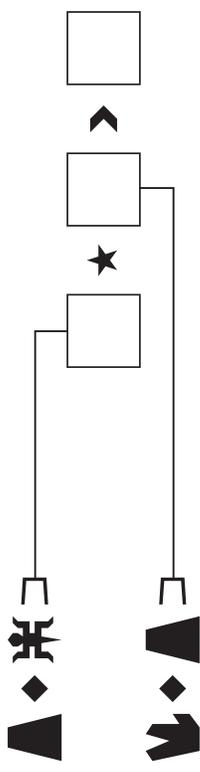
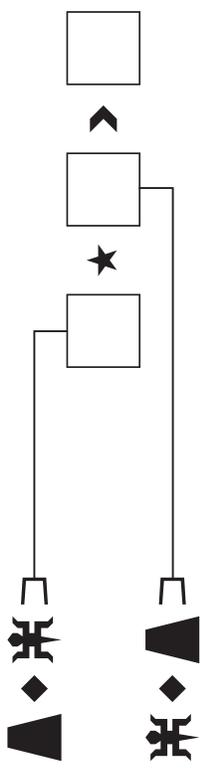


UNLOCK THE CHAMBER

Device: Side A



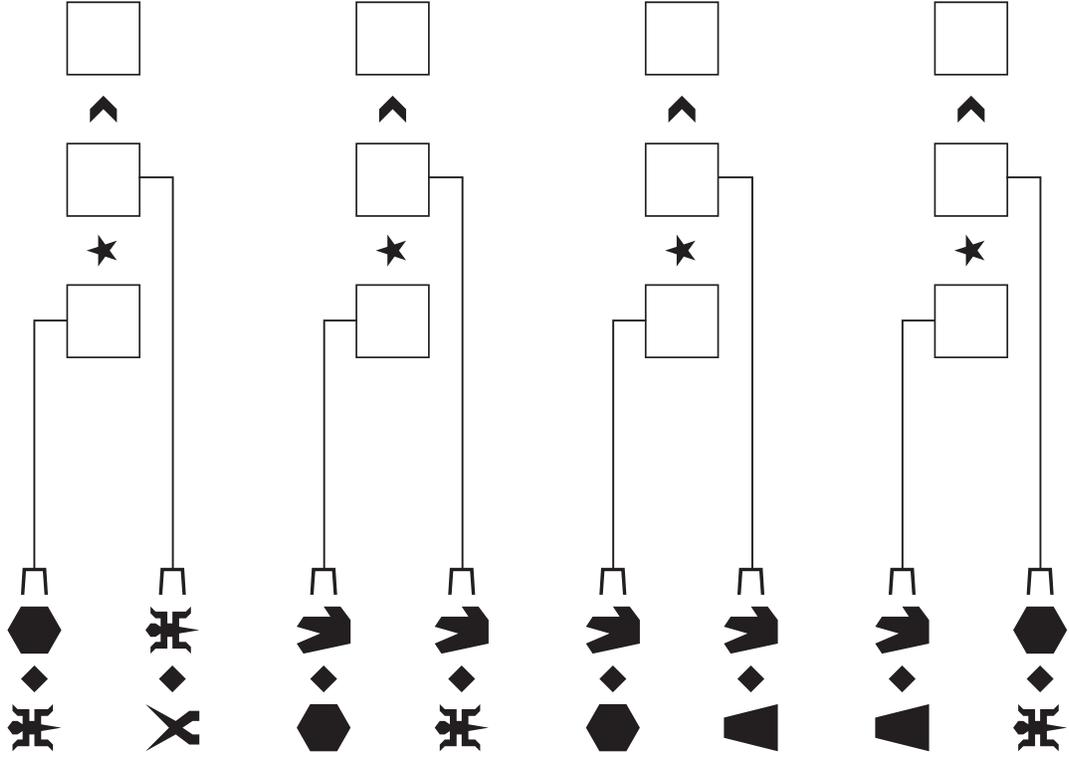
Device: Side B



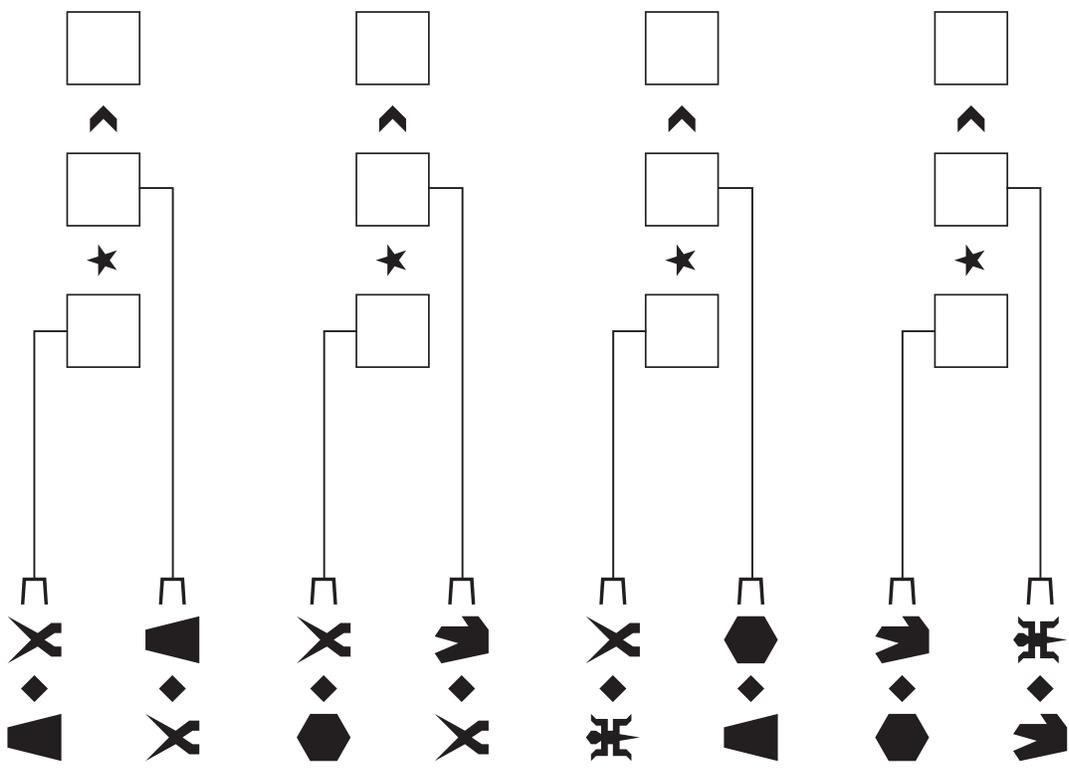


UNLOCK THE CHAMBER

Device: Side C



Device: Side D





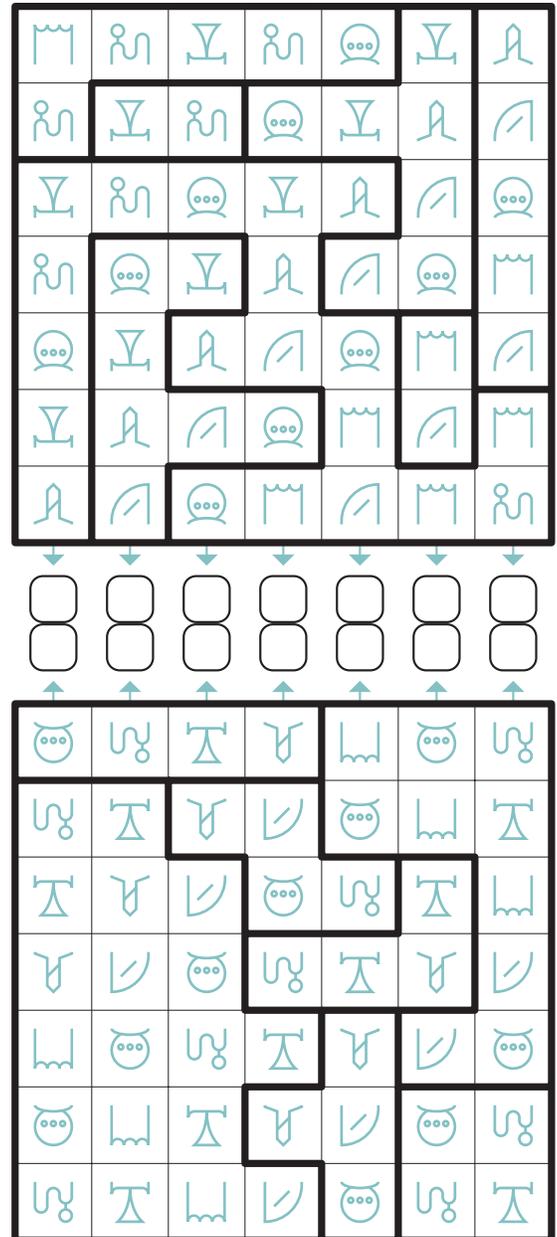
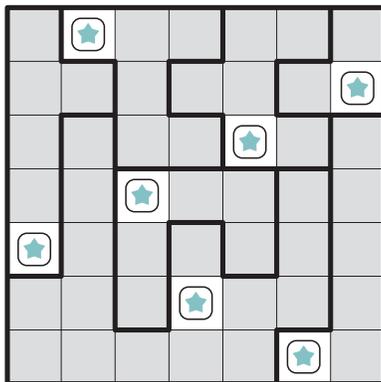
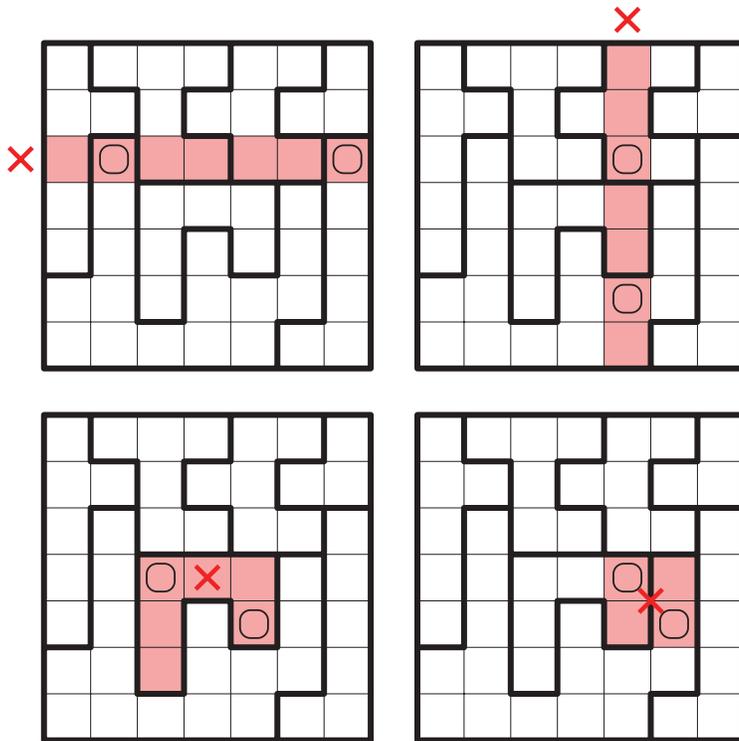
EXPLORE THE CHAMBER



Puzzle 2 • Page 1 of 5

The chamber's walls are crumbling, but their engravings are still largely intact. The wall opposite you is adorned with mysterious glyphs. As you approach the wall for a better look, your foot brushes across six pentagonal artifacts that were obscured by the debris.

“Aha!” cries Dr. Jones. “The glyphs on these artifacts look like they would form the characters I’ve seen around the dig site. I haven’t made much progress on the translations, but here’s what I’ve got so far.” You look at the nine slips of paper as Dr. Jones continues, “The grids on the wall seem to indicate a sequence of seven characters, but I’m not sure how to translate them.”

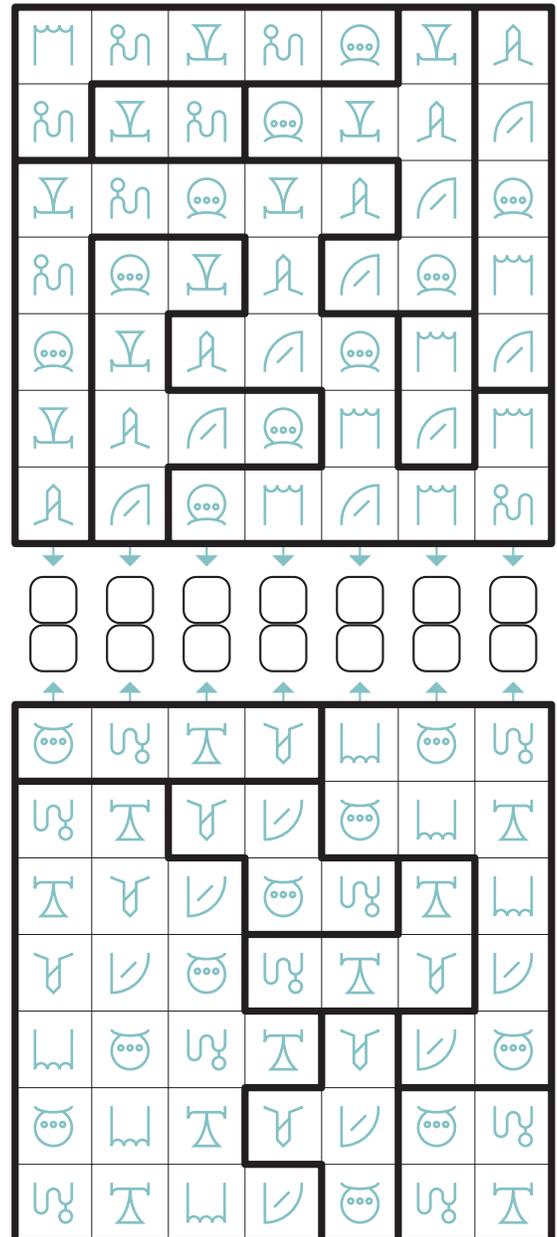
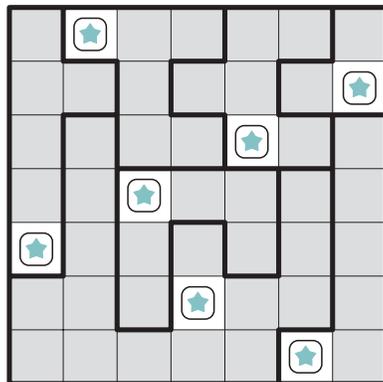
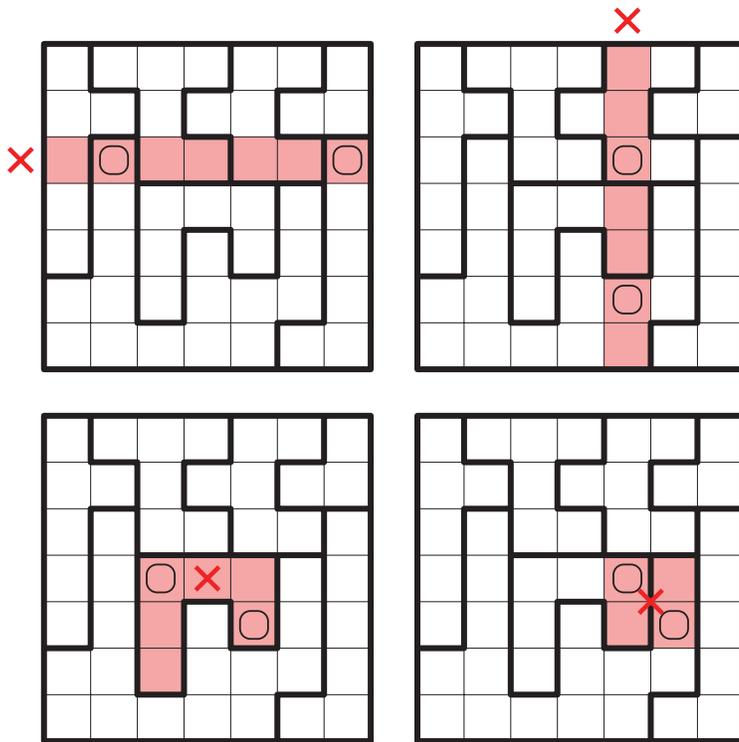


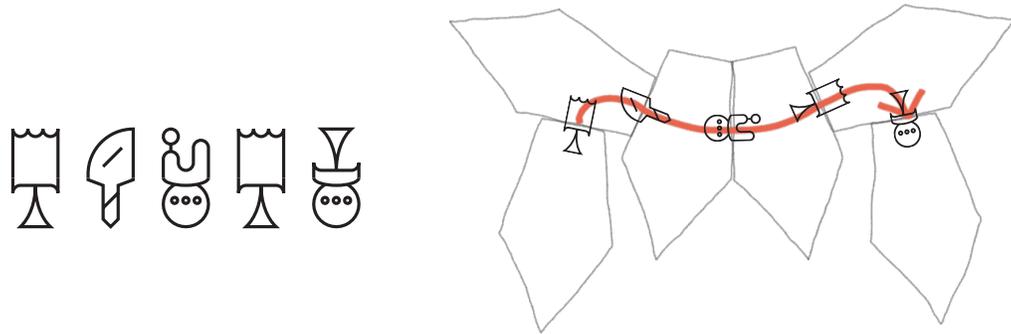


EXPLORE THE CHAMBER

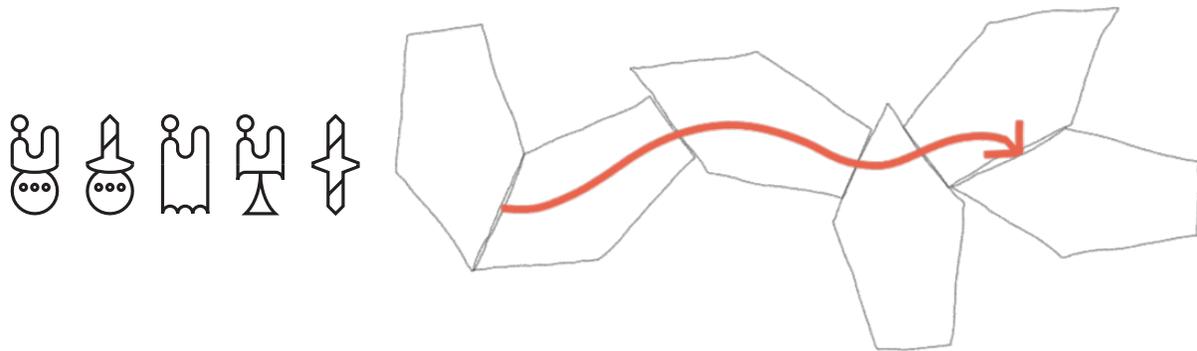


This is a copy of the grids from page 1 for your convenience.

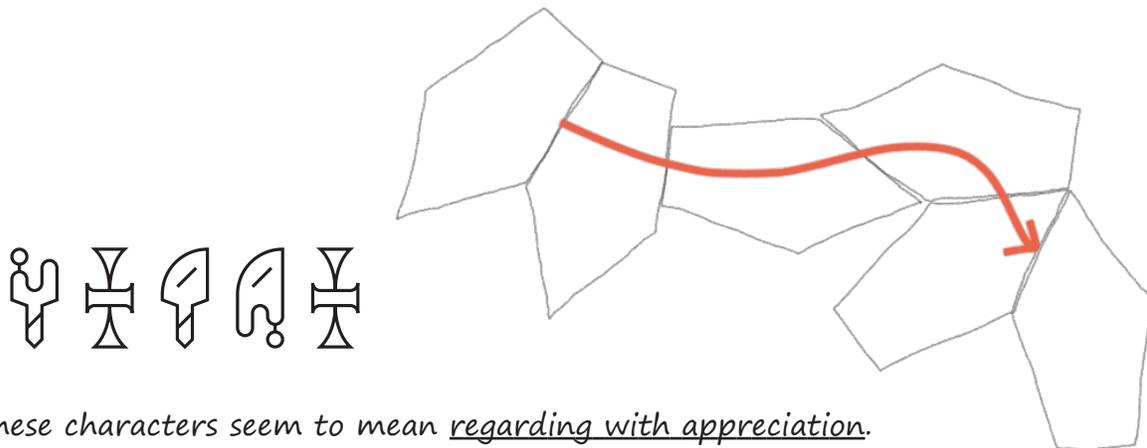




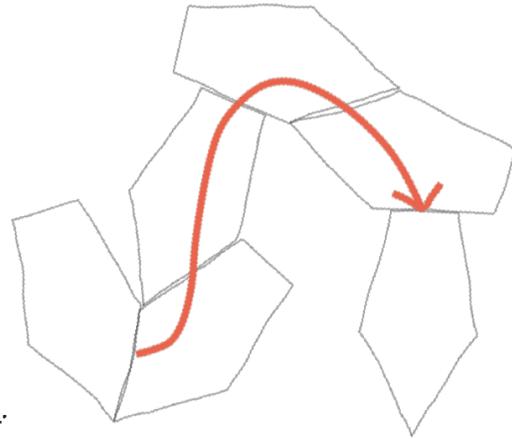
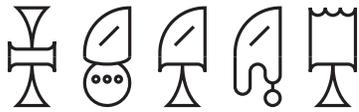
I've already deciphered these characters. They translate to **WORKADAY**.
It seems like the other character sequences also represent eight-letter words.



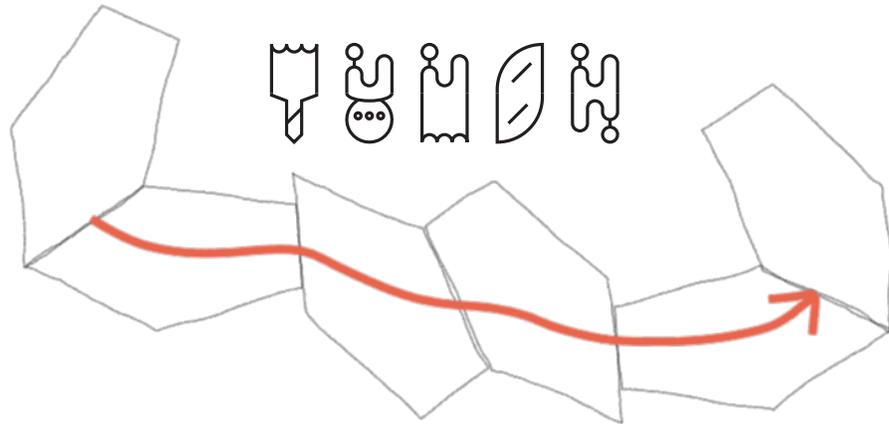
These characters seem to represent an unknown individual.



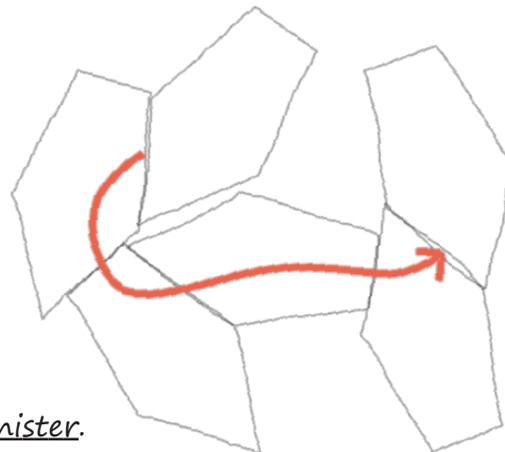
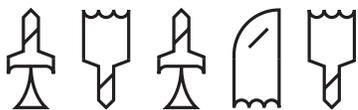
These characters seem to mean regarding with appreciation.



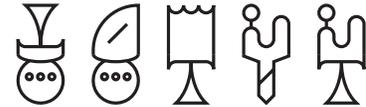
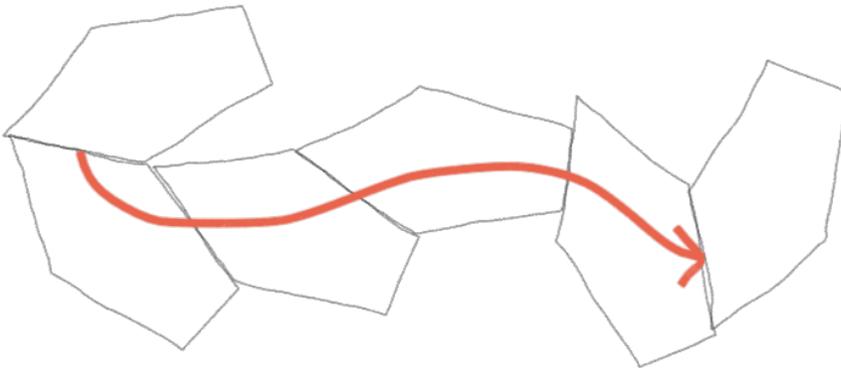
These characters seem to mean seen briefly.



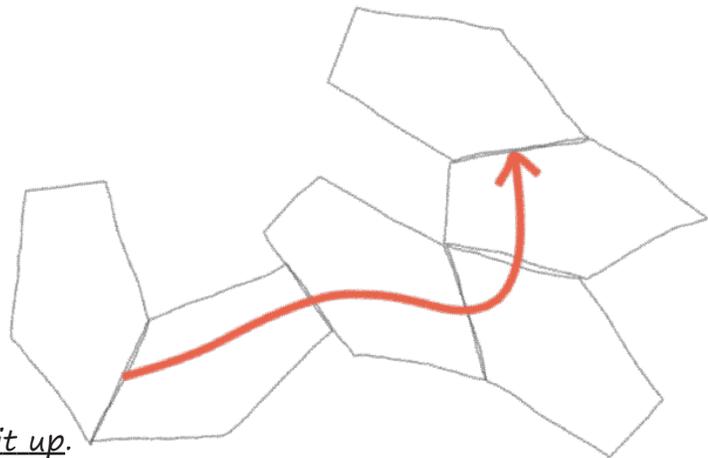
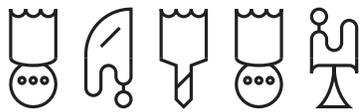
These characters seem to signify an induced stupor.



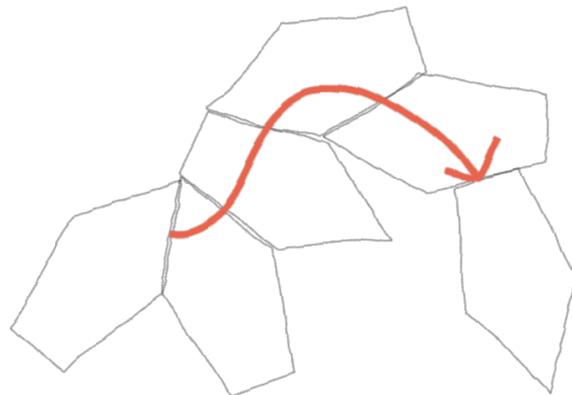
These characters seem to refer to a banister.



These characters seem to be sparkling.



These characters seem to mean split up.

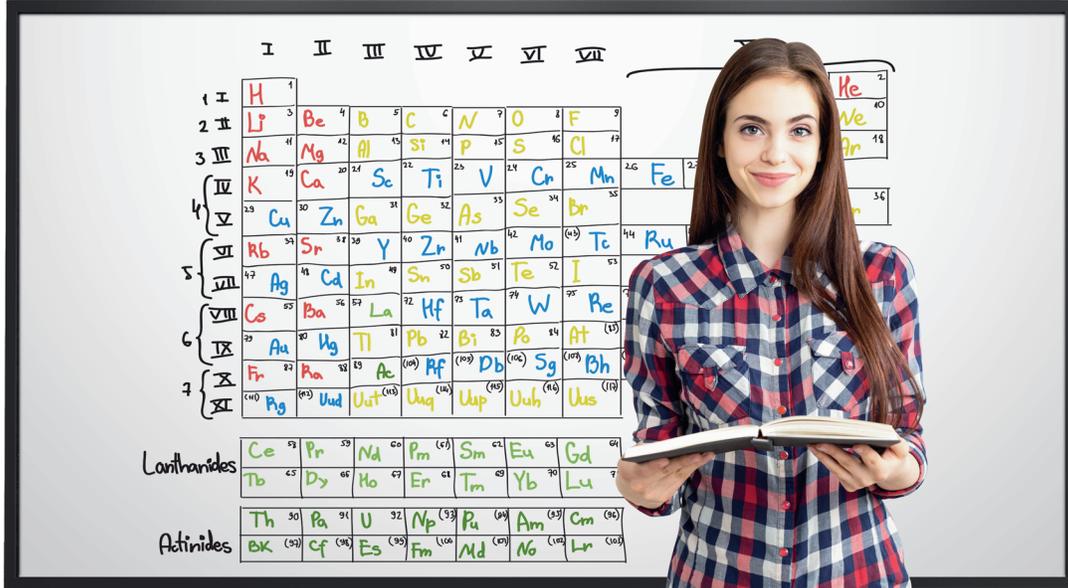


These characters seem to indicate the way to interpret the characters generated by the grids.



RADIO TELESCOPE

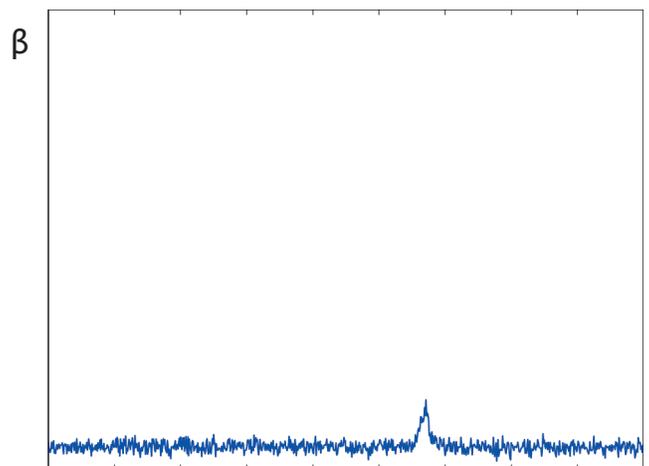
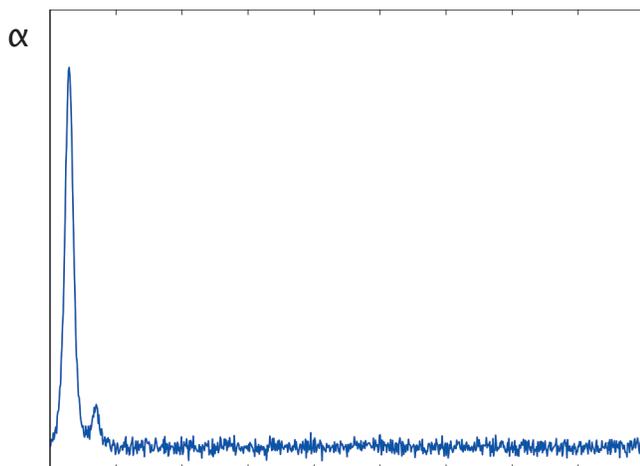
Puzzle 3 • Page 1 of 3



“Hi there, team. I’m Dr. Arroway, and I run the radio telescope group here. We followed up on your discovery and pointed the array at Iota. Sure enough, we found a signal! It’s showing highly anomalous changes over time, so we’re pretty sure this is a signal from intelligent life. That’s tremendously exciting!

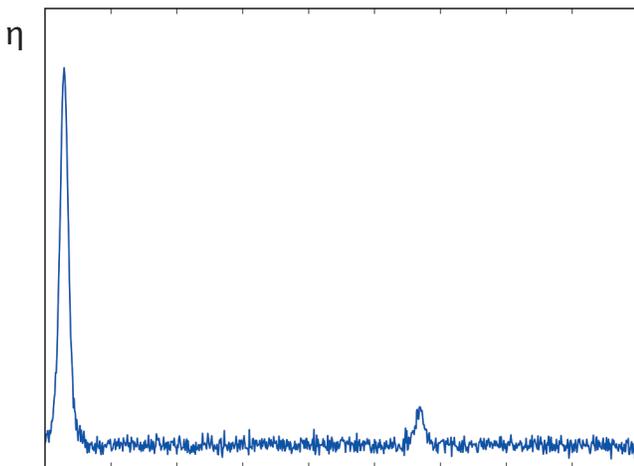
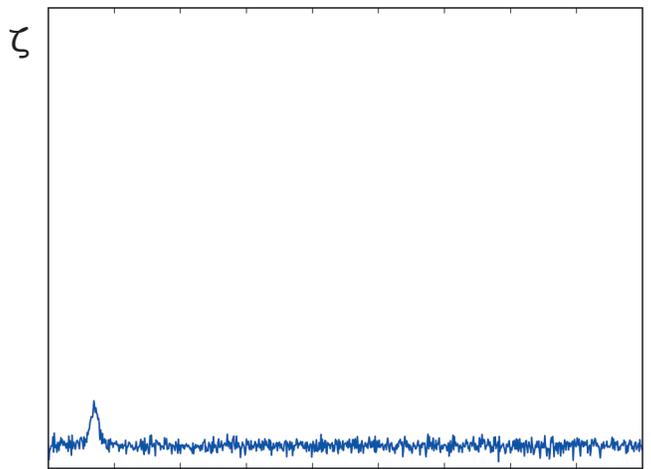
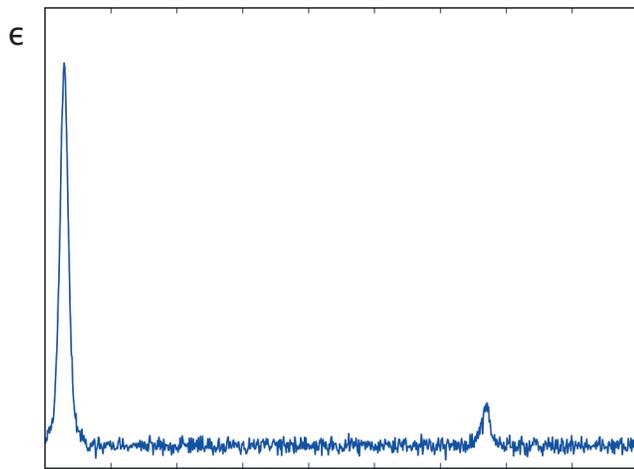
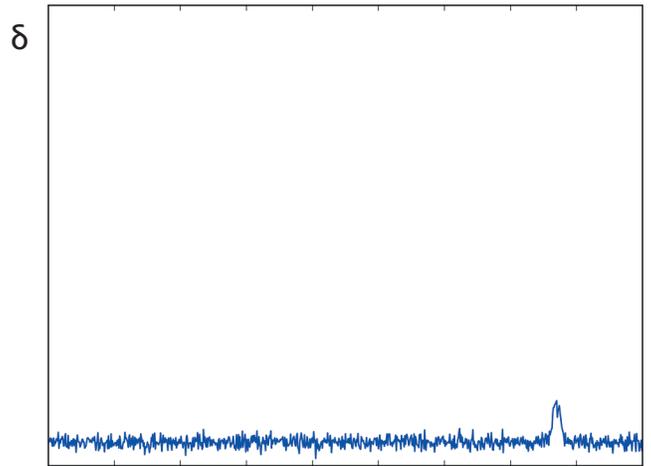
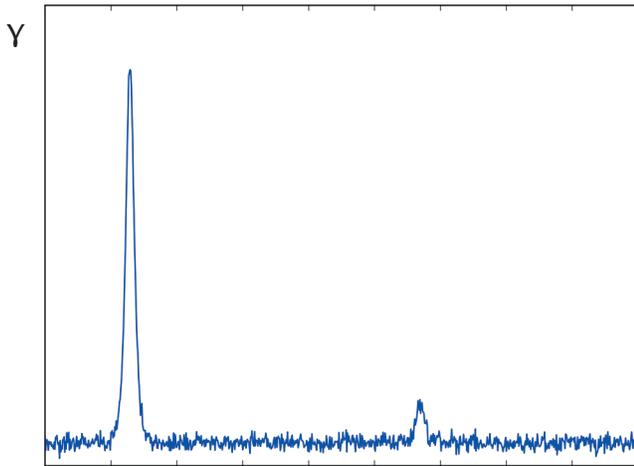
“We’re astronomers, not signal analysts or linguists, so we have no idea what to do with the data. Perhaps you could bring the human *element* to this problem?”

The signal consists of these distinctive patterns, pulsed in various sequences:





RADIO TELESCOPE



These are the sequences received:

ζζδ

αε

βζζζζ

ββββββζζζζζζζζζζζζζζζζδδδδδδδδ

ββζζ

δδ

ζζ

γηη

ηδδ

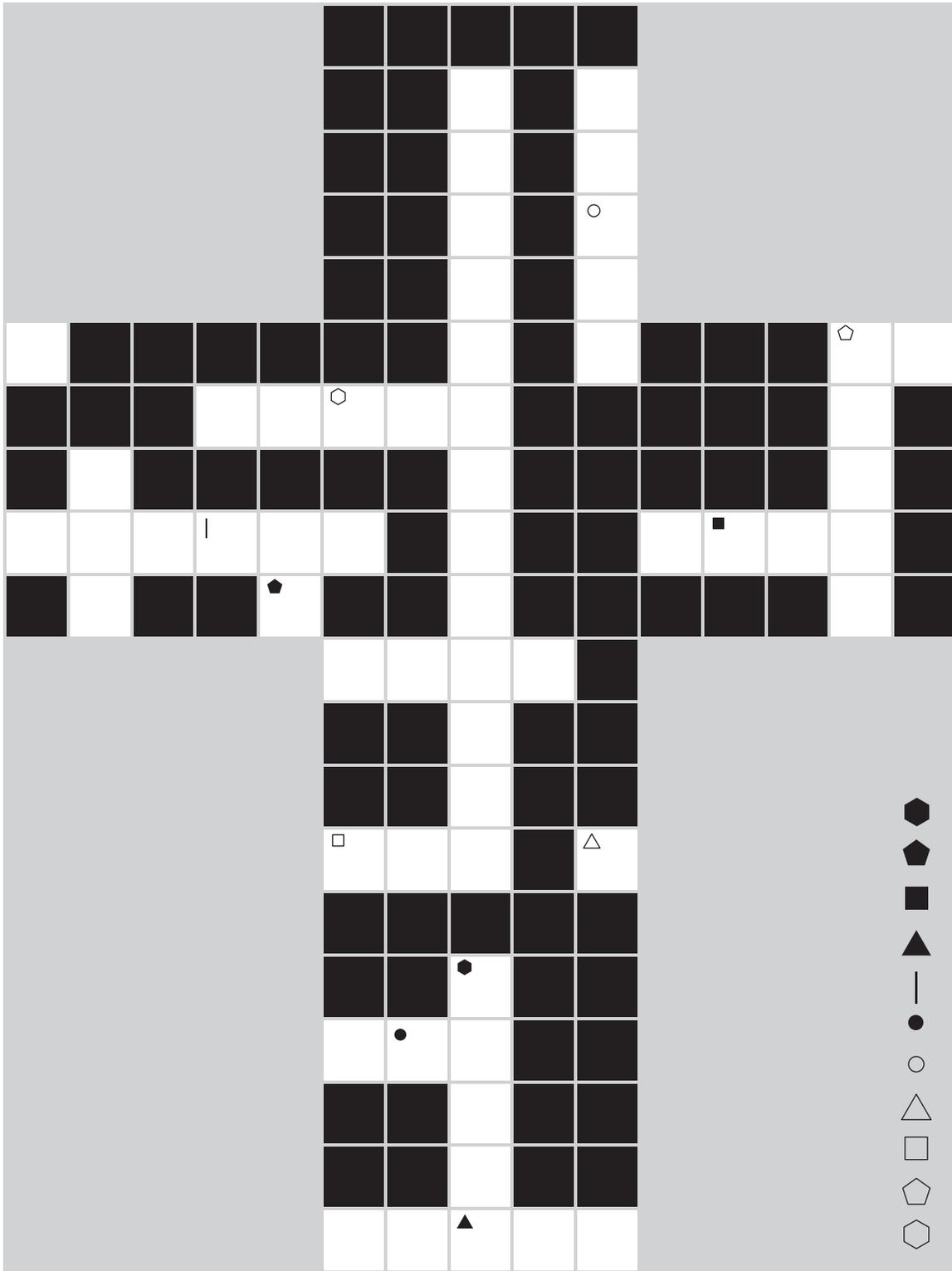
δδδ



RADIO TELESCOPE



“We also received this image,” Dr. Arroway explains, “but that just *compounded* our confusion.”





WIDE FIELD ARRAY



Puzzle 4 • Page 1 of 2

The Wide Field Array technician explains, “While you were analyzing the signal from Iota, our receiver picked up another signal coming from a spot in the sky that is nearby, but different from the signal from Iota. This signal is much more powerful and information-dense.”

The Iotans must have been monitoring broadcasts from Earth, learning our language as we are also learning theirs. They must be trying to communicate, but the technicians haven’t been able to figure it out.

Perhaps the Iotans are trying to tell us something about their arrival. Your team will need to piece together the information from this transmission and find the *connections* to understand their message.

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

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N | E | S | U | I | T | L | O | R | S | N | A | I | | | |
| S | | | R | | | O | | | C | | V | K | | | |
| E | D | | F | I | U | M | C | T | A | L | E | A | I | | |
| | R | | | L | | | | N | | | | | N | | |
| T | I | N | K | L | E | | | I | A | L | P | | | | |
| O | | | | A | M | C | | O | N | | | | C | | |
| R | F | | | | I | A | | J | T | | N | E | N | O | |
| A | I | E | L | E | | P | | | | | I | | | U | |
| T | S | | | M | | I | | R | E | E | L | | | N | |
| | H | T | N | E | | L | A | T | T | | | | Y | R | T |



DEEP SPACE NETWORK

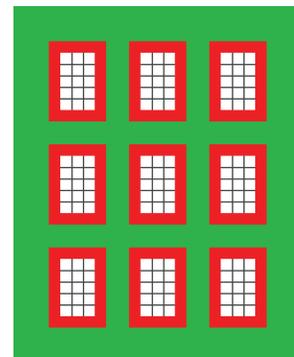


Puzzle 5 • Page 1 of 5

The NASA scientists eagerly greet the world's experts on Iotan communication – you! The Iotans seem to be trying a new protocol for communication. Perhaps they do not yet have an expert grasp of the English language.

| | | |
|---|---|---|
|  atmosphere grassland |  spin pond |  above master |
|  combustion labor |  precipitation ribbon |  squander unsea |
|  darkness monotony |  stream cot |  turf jumper |

-  lawasnted
-  blbaocarkd
-  wofirrkes
-  ghorpaspers
-  palianre
-  ribveedr
-  braoiwn
-  olorverd
-  wpohoilrl





DEEP SPACE NETWORK



| | | |
|--|---|--|
|  oppose timepiece enlightened |  mound rear scream |  burst photons |
|  rock barrier |  frog seat |  image chart |
|  elevated direction male |  games male boat |  gong untop |

 whubahamclepk

 bobtetl olm

 sttooolad

 swatolnel

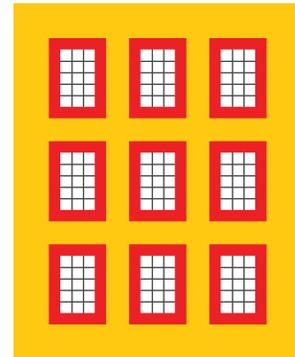
 whimaghany

 pghortapoh

 cowcunloiteserck

 smashponirtsp

 fllaisghth





DEEP SPACE NETWORK



| | | |
|--|---|--|
|  below canine |  skillet confection |  star photons |
|  extreme elevated direction |  limb hole |  rear combustion |
|  crate vehicle |  grit essay |  planet wobble |

 spaapnerd

 udonderg

 bfiacrek

 sluighnt

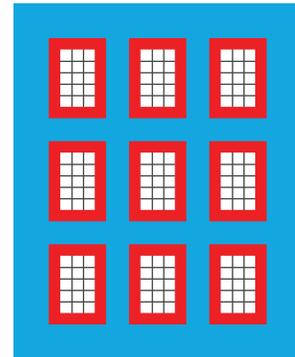
 pairmt

 cabrox

 swuhipaghery

 qeauarketh

 capaken



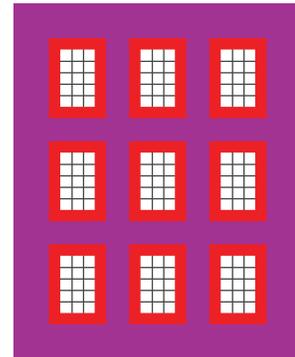


DEEP SPACE NETWORK



| | | | | | |
|--|--------------------------|--|--------------------|--|-----------------------|
| | unfoot unlefting | | crucifix street | | undead merchandise |
| | unshort beach male | | vehicle pond | | oppose fight |
| | needle band | | extreme bazaar | | fast grit |

- slitoveck
- slomhonrange
- whriantindg
- saqunicdk
- crrososad
- catotunatcker
- masrupkeret
- spitrinpe
- pcoaorl





DEEP SPACE NETWORK



| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
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PEACEKEEPING

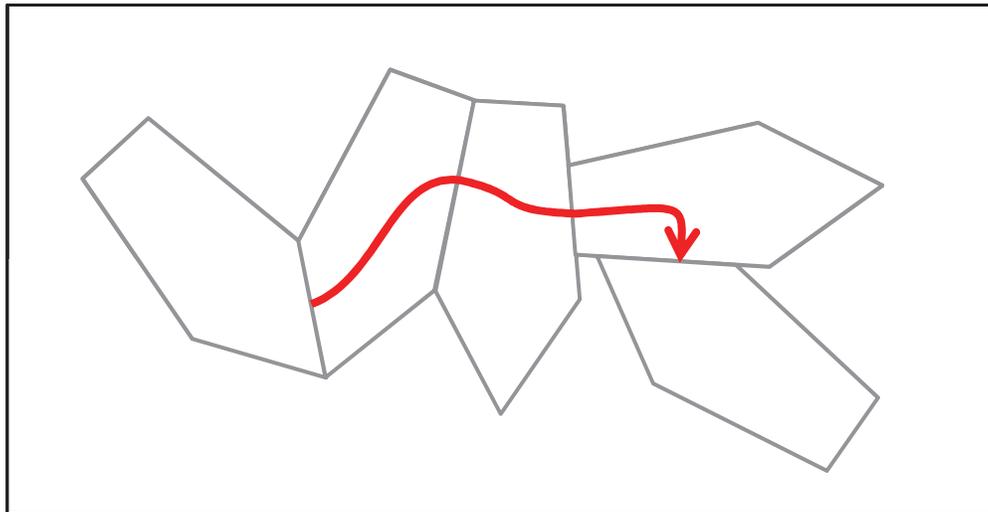


Puzzle 6 • Page 1 of 4

“Thank you for all your expertise and leadership during this first contact,” says General Cutler, “but because of the possible threat to our planet, armed forces are stepping in to monitor the situation.

“We hope we can prevent any hostilities with a friendly reply. Perhaps if we try communicating with them in their language, things will go better.” The general places a case on the counter and opens it for you to see. “We found the plans for an alien communication device. The components in this case should allow us to transmit Iotan characters, but we need your help making the correct connections.”

The General hands you the case and nine wiring assembly chips. “Once you have assembled the transmitter, we have crafted a message to send along.”



This was found next to the blueprints of the communication device with a message that we believe reads “In case of emergency.”



PEACEKEEPING



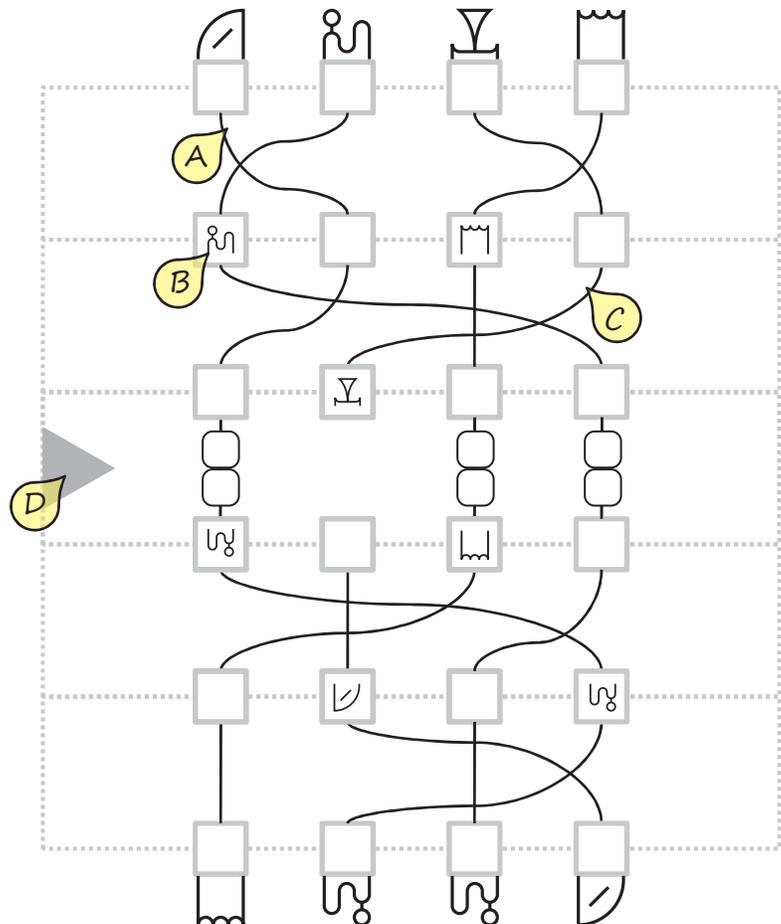
The general's aide approaches you and hands over a small device. "Our scientists have been working on a transmitter, and they have managed to create a small working prototype. This version isn't large enough to transmit a message outside our planet's atmosphere, but I hope having an example of a working device may assist your own research."

We have discovered that the wiring assembly chips fit in between the top and bottom row of glyphs, forming **pathways (A)** between some of these glyphs.

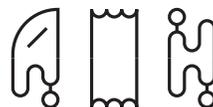
In the center of the device are **connectors (B)**, which are smaller versions of the glyphs. These need to match with the large glyphs on the top and bottom row, both in shape and direction.

Pathways that do not connect a top glyph to a bottom glyph are not part of the message, but they do still need to properly match glyphs and connectors on the pathway (**C**).

The wiring assembly chip with the **directional indicator (D)** stores the device's primary message and should be read from left to right with the directional indicator on the left, as shown.



This prototype device will transmit the characters





PEACEKEEPING



| | | | | | | | | |
|--|---|---|---|---|---|---|---|--|
| |  |  |  |  |  |  |  | |
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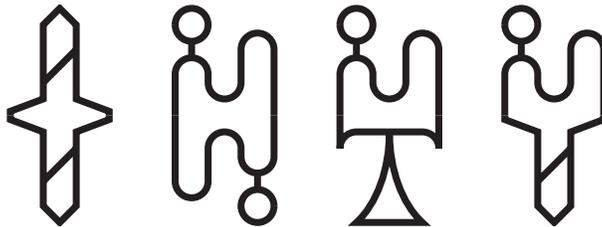


WHAT DID WE MISS?

Puzzle 7 • Page 1 of 2



You pace idly around the chamber, wondering how your communication with the aliens could have gone so awry. What could you have said that caused them to speed up so aggressively? You look over the message you sent to their ship again. Perhaps your understanding of Iotan is not as complete as you thought.

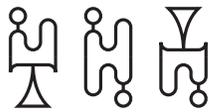


You kick at the rubble in frustration, when suddenly your foot strikes something wonderful: three more artifacts. Of course! The Iotans do everything in nines!

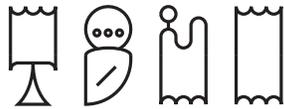
Right on cue, Dr. Jones rushes in. “It seems we’ve largely misunderstood how to interpret the Iotan characters until now. Fortunately, the letters you’ve already inscribed on the artifacts seem to be correct, but everything else we know about the artifacts is completely wrong. Iotan characters do not denote paths at all! Instead, each character represents one or two letters.

“The Iotans appear to be communicating in a *third dimension* using a single unified language. We need to *put everything together* in order to understand their writing. Here are my notes.”

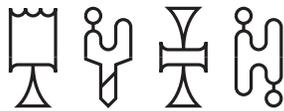
With these additional artifacts, your team works on determining the correct translation of your previous message to the Iotan ship.



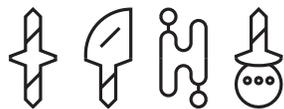
These characters represent numerical data, for short.



These characters mean opposing.



These characters describe a schedule for a meeting.



These characters refer to an announcer.



These characters come eight letters before iota.



These characters denote a small celestial body.



These characters denote a larger celestial body.



These characters are like a used car.



These characters represent a choir's material.



FIND THE LANDING LOCATION



Puzzle 8 • Page 1 of 3

The military field headquarters is abandoned – all personnel must have gone to the landing site. A large screen displays a message which must be the secret location of the landing site. But, it is encrypted.

GMIQRKQRBGRCQIPMMDBGRQIXCRGRX

You quickly look around the HQ and find two grids that seem to be somehow related to the encryption scheme, along with some text that may provide clues. The text itself is rather cryptic, and – this being a military base and all – some important *directions* seem to have been redacted.

Solve notes: The phrases on the following pages are *cryptic crossword clues*. They contain two parts: a “straight” definition and wordplay.

The straight definition will always be at either the beginning or end of the clue (never in the middle); that portion is underlined on page 2.

Some examples of wordplay:

Charade: The answer is formed by joining individual words/letters from the clue together.

Example: 1000 in family

Answer: KIN (family): K (1000) + IN

Note that in this example, K was clued by 1000 whereas IN came directly from the clue. This type of wordplay is commonly combined with other types.

Anagram: The letters of part of the clue are rearranged. Anagrams are clued with indicator words like “changed,” “messy,” or “crazy.”

Example: Captures crazy parts

Answer: TRAPS (captures): an anagram of PARTS

Container: Here one part of a clue is put inside another. Containers are clued with indicator words like “surround,” “inside,” or “within.”

Example: Ship structure, as in Bozeman’s st.

Answer: MAST (ship structure): AS “in” MT (Bozeman’s state)

Deletions: Here one (or more) letter(s) is removed from a word in the clue.

Example: Writer Virginia unfinished yarn material

Answer: WOOLF (yarn material): WOOLF (writer Virginia) without the final letter (unfinished)
Deletions may be at the beginning (“headless,” “no start”), middle (“heartless”), end (“tailless,” “unfinished”), or even both ends.

Selections: The flip side of deletions; instead of removing a letter we select one or more letters from a word. This may occur at the beginning, middle, or end (or both ends) of a word with similar indicator words as deletions (e.g. “at the extremes,” “heart of”).

Other types of this clue are initials (take the first letters of a sequence of words), or even/odd.

Example: Even Elvis meets citrus fruits.

Answer: LIMES (citrus fruits): the “even” letters from the phrase Elvis meets citrus fruits

Reversal: Here a part of the clue is read backwards. Reversals are clued with indicator words like “reverse” or “the wrong way.”

Example: Flying mammals impale the wrong way

Answer: BATS (flying mammals): STAB (impale) backwards



FIND THE LANDING LOCATION



FROM

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

A1 (S) - Bread maker from Burger King around a ■ rye starter (5)

C1 (E) - Ask what in Spanish ■ into disarray (8)

D2 (SW) - Average ■ speed of light is astronomical distance (6)

D2 (S) - IPO has no one; ■ short hospital location might (5)

B4 (N) - Even friends ■ with a part of the Bible? (3,3)

B4 (SE) - D's opponent ■ initially governs area near Lear's daughter (5)

C4 (SW) - Divorcée with ■ adorable carry out (7)

D5 (NE) - Ego-centric ■ endless omen is garden figure (5)

E5 (SE) - First letter ■ on reversed Latin year (4)



FIND THE LANDING LOCATION



TO

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |

E1 (S) - Return: not ■ right powder for printer (5)

C2 (E) - Odd sickos ■ start to eat treat served with tea (5)

C2 (SE) - Mailed shipping front ■ not without the middle (4)

C3 (SW) - And endless, ■ limitless false historical records (6)

A4 (E) - At first, ask not ■ re: turnaround response (6)

B5 (N) - Plead with rent mix-up ■ ends of apt. (7)

C5 (E) - Cheapskate neighbor of WI ■ with mature rating (5)

D5 (N) - One, ■ three feet without beginning toward the center (6)

B6 (E) - Soldier Joe, e.g., around you heard ■ a country in western Africa (6)



PREVENT HOSTILITIES



Puzzle 9 • Page 1 of 2

The landing pad looks empty, but General Cutler barks at you, “Keep your distance! The spacecraft on that pad is cloaked, and our sensors show some sort of massive energy build-up. It’s probably a weapon!”

“Wait!” you cry out. “The Iotans come in peace. They’re just demonstrating their gift to us – a new power technology. We’ll prove it if you’ll let us communicate with them!”

The general looks skeptical, but decides to let you try. He motions his people to let you approach the landing pad. “I wouldn’t touch that ship if I were you,” he cautions as he hands you a field scanner that will let you perceive the craft, “but I suppose you know what you’re doing. Just move slowly, ok? We don’t want to startle them.”

The general orders you to send the message “LOWER POWER.” Unfortunately, the equipment capable of directly transmitting Iotan characters is back at the dig site. You’ll have to make do with what you can find here.

To analyze the ship’s power signature, you whip together a makeshift electromagnetic resonance chamber from a couple of car batteries and a wheelbarrow. This causes various nearby odd-shaped objects to glow with distinct colors. If you can discover a correlation with the six Iotan glyphs, you could use the six-button harmonic broadcast device included in the field scanner to communicate with the Iotan ship.

All eyes are on you as the soldiers brace for a potentially hostile response from the Iotans.





PREVENT HOSTILITIES

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Home Edition

Using the Zappar app, aim your camera at the landing pad below. Move slowly and keep the pad roughly centered in your view to see and interact with the cloaked ship.

