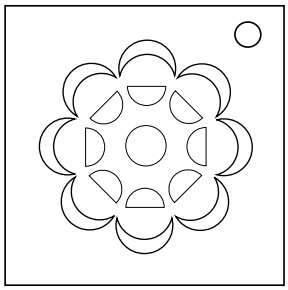
On the Subject of The Moon



I've waited long enough now for them all to come around; and though the sun may plead and threaten, the moon will stand her ground! So say goodnight to this, the final setting of the sun; tomorrow dawns in darkness. The night-time has begun!

- The module consists of eight "outer" crescents, eight "inner" half-moons, and a center button. Buttons on the same compass point are considered to be a set.
- Four adjacent sets start out lit, four unlit. We will refer to them as "lit 1-4" and "unlit 1-4" in clockwise order.
- Find the correct button for each set by calculating a value *x* as directed by the left table below, then look up its modulo-7 value in the right table.

lit 1	D batteries
lit 2	AA batteries
lit 3	Digits in serial
lit 4	Port plates
unlit 1	Modules
unlit 2	Consonants in serial
unlit 3	Indicators
unlit 4	Ports

x % 7	Button
0	outer
1	outer
2	outer
3	inner
4	inner
5	center
6	center

- Determine the first set to solve by taking the sum of the serial number digits modulo 4 and using the following table.

0	1	2	3
unlit 4	unlit 1	unlit 2	unlit 3

- The next 6 sets are determined by the characters in the serial number. For each character, move to the next set as directed below:

0 1 3 5 7 8 A C E G H J L M O Q S T V X Y	2 steps clockwise
2 4 6 9 B D F I K N P R U W Z	2 steps counterclockwise

If this moves you onto a solved set, continue moving a single step in the given direction until you reach an unsolved set.

- The final set is the last set that remains.
- The module will be solved once you have correctly pressed eight buttons or when you have pressed the center button.