

On the Subject of Morse Complication

These wires aren't like the others. They have an antiquated form of naval communication! That makes them completely different. The good news is we've found a concise set of instructions, so pay attention and you might just learn something.

The six LEDs at the top of the module transmit Morse code. However, all transmissions have been obfuscated.

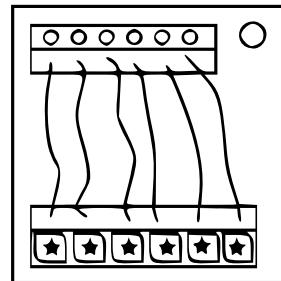
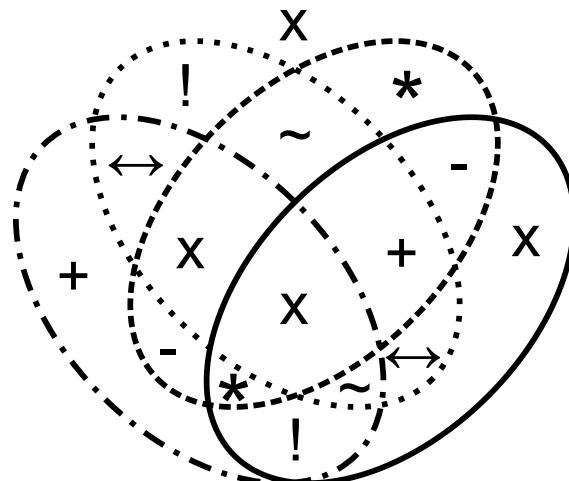
Use the Venn diagram below to identify how to undo the obfuscation process from the properties of the wire connected to the transmitting LED.

Decode the obfuscated Morse code to obtain six letters that can be unscrambled to form one of the words in the table.

Cut only the wires corresponding to the word.

....	Has white
- - -	Has red
. - -	Has blue
---	Marked with "★"

Symbol	Instruction
+	Caesar shift once forwards
-	Caesar shift once backwards
*	Apply Atbash cipher
↔	Reverse transmission
~	Change dots to dashes, and vice-versa
!	Invert the on/off state of the LED
X	Consume woodworking supplies



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

Word Table

Word	Cut wire(s)
expand	1
format	2
squash	3
moving	4
salmon	5
strobe	6
reason	1 2
sketch	1 3
result	1 4
quiche	1 5
object	1 6
hunter	2 3
source	2 4
visual	2 5
excite	2 6
figure	3 4
canvas	3 5
ground	3 6
column	4 5
advice	4 6
tongue	5 6
window	1 2 3
exotic	1 2 4
danger	1 2 5
carrot	1 2 6
jacket	1 3 4
winter	1 3 5
pillow	1 3 6
junior	1 4 5
voyage	1 4 6
planet	1 5 6

Word	Cut wire(s)
frozen	2 3 4
asylum	2 3 5
studio	2 3 6
answer	2 4 5
credit	2 4 6
camera	2 5 6
bistro	3 4 5
medium	3 4 6
aztecs	3 5 6
subway	4 5 6
peanut	1 2 3 4
valley	1 2 3 5
switch	1 2 3 6
bucket	1 2 4 5
earwax	1 2 4 6
clique	1 2 5 6
flower	1 3 4 5
bishop	1 3 4 6
artist	1 3 5 6
choose	1 4 5 6
nature	2 3 4 5
adjust	2 3 4 6
gravel	2 3 5 6
muscle	2 4 5 6
chorus	3 4 5 6
rhythm	1 2 3 4 5
spider	1 2 3 4 6
smooth	1 2 3 5 6
perish	1 2 4 5 6
powder	1 3 4 5 6
action	2 3 4 5 6