

# CRYPTOMECHANICS

NPLabs' mastery of simple Newtonian physics concepts, earned from completing training exercises like this one, will someday help to unlock the secrets of the delicate balance of the universe.

These towers are from the game Konexi, a cross between a word game and a dexterity/balance game.

Add one letter to the tower given the following restrictions:

- 1) You may not add a letter that already appears in the tower. The game only has one of each letter of the alphabet.
- 2) You may not rearrange the letters already in the tower.
- 3) You must insert your letter into one of the notches of one of the letters in the tower (rather than putting one of its notches onto a "serif" of a letter in the tower). Sticking the letter between the uprights of a U, the legs of an A, etc., doesn't count.
- 4) The notch must be able to support the weight of the letter without it falling out, i.e. the notch must be angled upwards so that it accepts a letter from above. The notch must also not be blocked by other letters in the tower. No letter could be added to the G in Tower #1, as the I is blocking the only upward-pointing notch.
- 5) You must position the letter in the tower so that a word that fits the clue under the tower may be spelled using the newly introduced letter plus a selection of letters from the tower that are connected directly to it, notch-to-serif, without any extraneous letters between them. So in Tower #1 below, if the O were still available, you could add it to the H to make HOG (the letters may be out of sequence in the tower), but not to make HOW, since the G is between the H and W.



PHYSICS CONCEPT THAT IS  
USEFUL IN THIS GAME



MAKE IT INTO THE  
NEXT ROUND



FRUIT THAT'S SIMILAR  
IN APPEARANCE TO A PEAR

## FIELD: CRYPTOMECHANICS



SOUND LIKE AN UPSET  
CHICKEN



NOT SEE-THROUGH



PIEZOELECTRIC CRYSTAL



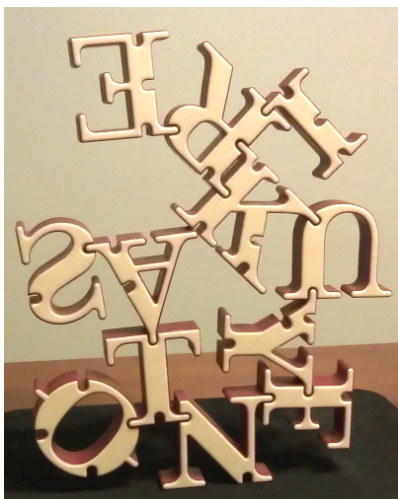
CLOSE YOUR EYES  
AGAINST THE SUN



IT'S OFTEN KEPT IN A  
LOCKED CABINET



GET ONE'S HANDS ON



DELIGHTFULLY, OR  
MILDLY, STRANGE



POLICE CAR, SLANGILY  
= \_\_\_\_\_ CAR



SHARED PROBLEM FOR  
DENTAL AND HEART  
PATIENTS