

# BRAIN

# BUSTERS

## Word Combinations (Solution)

Form six 9-letter words by combining two of the twelve 3-letter block combinations shown below (right) with each beginning in the grid. All blocks will be used. If you do it correctly, one of the vertical columns will spell a common English word describing a person using sound energy.

c	e	l	l	u	l	o	s	e
a	n	a	e	r	o	b	i	c
e	l	e	c	t	r	o	d	e
b	a	t	t	e	r	i	e	s
b	i	o	d	i	e	s	e	l
c	o	n	d	u	c	t	o	r

Form six 9-letter words by combining two of the twelve 3-letter block combinations shown below (right) with each 3-letter block in middle of the grid. All blocks will be used. If you do it correctly, one of the vertical columns will spell a common English word describing what teenagers usually make.

p	e	t	r	o	l	e	u	m
l	u	m	i	n	a	i	r	e
g	i	g	a	w	a	t	t	s
g	e	a	r	b	o	x	e	s
t	o	m	b	s	t	o	n	e
e	l	e	c	t	r	o	n	s

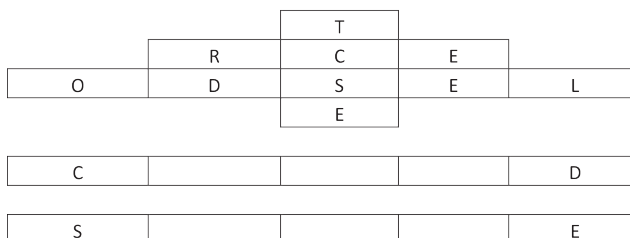
Form six 9-letter words by combining two of the twelve 3-letter block combinations shown below (right) with each beginning in the grid. All blocks will be used. If you do it correctly, one of the vertical columns will spell a common English word describing a person who might make you feel better.

e	l	e	c	t	r	o	d	e
p	r	e	c	i	s	i	o	n
l	u	m	i	n	a	n	c	e
t	e	r	a	w	a	t	t	s
r	e	d	u	c	t	i	o	n
r	e	s	i	s	t	o	r	s

# BRAIN BUSTERS

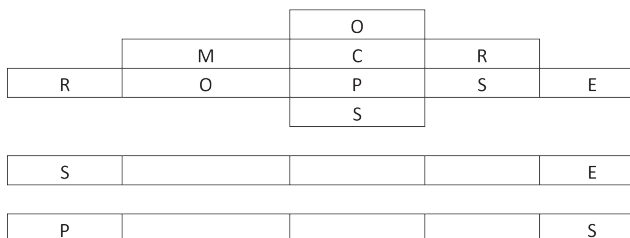
Starting on a vowel, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
ELECTRODES  
CREED  
STOLE



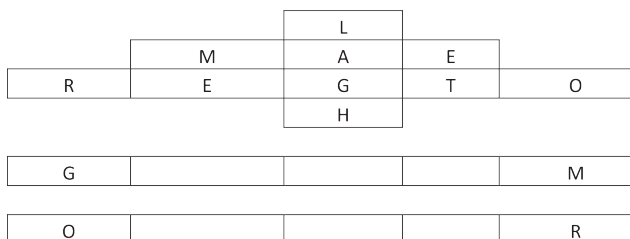
Starting on a consonant, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
COMPRESSOR  
SCORE  
PROMS



Starting on a consonant, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

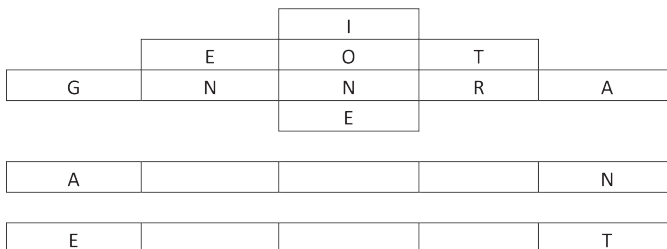
Key:  
GEOTHERMAL  
GLEAM  
OTHER



# BRAIN BUSTERS

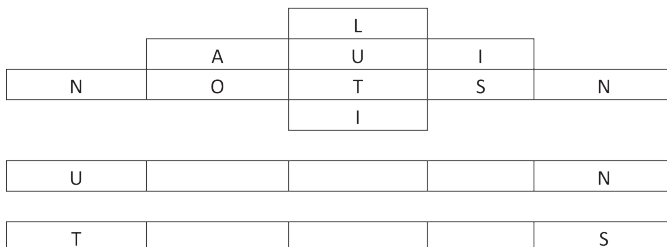
Starting on a consonant, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
GENERATION  
ANION  
EGRET



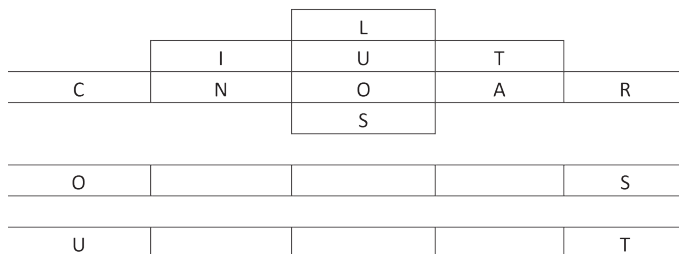
Starting on a vowel, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
INSULATION  
UNION  
TAILS



Starting on a vowel, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
ULTRASONIC  
OCRAS  
UNLIT



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Starting on a consonant, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
HORSEPOWER  
ROWER  
HOPES

			W		
	E		O	H	
R	P		E	R	O
			S		

R				R
H				S

Starting on a consonant, spell out a ten-letter word going from letter to adjacent letter - horizontally, vertically, or diagonally - as you use every letter in the grid once. Then rearrange that ten-letter word into two five-letter words that begin and end with the letters shown in the rows at the bottom.

Key:  
LUMINARIES  
SANER  
ILIUM

			E		
	M		S	R	
U	L		I	A	I
			N		

S				R
I				M

# BRAIN BUSTERS

Three items are listed after each category below, but their vowels (including Ys) are missing and the words are strung together. For example, University: LPRDDK yields the answer Yale, Purdue, Duke. Can you identify all of these vowel-less items?

1. Bulbs: NCNDSCNTFLRSCNTLD
2. Meters: LGHTSNDVLTG
3. Energy Sources: SLRNCLRHDRO
4. Wind Turbine: NCLLBDRTR

Incandescent, fluorescent, LED

Light, sound, voltage

Solar, nuclear, hydro

Nacelle, blade, rotor

Three items are listed after each category below, but their vowels (including Ys) are missing and the words are strung together. For example, University: LPRDDK yields the answer Yale, Purdue, Duke. Can you identify all of these vowelless items?

1. Types of fuel: GSLNDSLBMSS
2. Household energy devices: FRNCFNRFRGRTR
3. Nonrenewable Energy Sources: CLNTRLGSGSLN
4. Renewable energy sources: TDLWNDSLRL

Gasoline, diesel, biomass

Furnace, fan, refrigerator

Coal, natural gas, gasoline

Tidal, wind, solar

# BRAIN BUSTERS

## Open-and-Shut Statements

Someone left the window open contrary to their parent's instructions not to waste electricity. Which one of the three, (Bob, James, or Collins) left a window open when the air conditioning was on. They make these statements:

Bob: "I didn't leave the window open."

James: "Collins left the window open."

Collins: "What James just said is true."

At least one of the boys is lying and at least one is telling the truth. Which is the only one of these boys to have left the window open?

James

B	Shut the window	F	T	T
J	Collins left window open	F	F	T
C	Collins left window open	F	F	T