Find the Phyla

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Our 15-by-15-letter letter square contains the names of all 21 phyla of the animal kingdom. Follow the clues and enter your solutions in the appropriate blanks. For example, the clue for Phylum 3 reads "Phylum 3: Starting at H-3; the sponges." You would look first at the blanks for Phylum 3 and see that you were searching for an eight-letter name. Then you would go to the letter square, and starting with the letter at coordinates H-3, search out the eight-letter name of the phylum that includes the sponges; you know by starting at H-3 that the phylum you are after starts with the letter "p". The answer, "porifera," you would enter in the blanks for Phylum 3, and continue to the next clue.

In tracing out words in the letter square, go one letter at a time up, down, left, right, or diagonally. No letter position is used more than once for any single word. You will find the answers on page 127.

**CLUES**

**PHYLUM 1:** Starting at H-3: one-celled or colony-celled animals.
**PHYLUM 2:** Starting at J-1: parasites with a surface layer of epithelial cells.
**PHYLUM 3:** Starting at H-3: the sponges.
**PHYLUM 4:** Starting at G-1: the coelenterates.
**PHYLUM 5:** Starting at J-3: the comb jellies.
**PHYLUM 6:** Starting at K-4: the flatworms.
**PHYLUM 7:** Starting at J-2: the nemertine worms.
**PHYLUM 8:** Starting at M-4: the spiny-headed worms.
**PHYLUM 9:** Starting at M-2: worms lacking spiny probiscus.
**PHYLUM 10:** Starting at I-1: the anterior end bears a circle of ciliated tentacles.
**PHYLUM 11:** Starting at D-4: wormlike.
**PHYLUM 12:** Starting at K-2: the moss animals.

**WORD WAYS**
PHYLUM 13: Starting at A-1: the lamp shells.
PHYLUM 14: Starting at H-6; mantle secretes an external shell.
PHYLUM 15: Starting at C-4; wormlike with introversible anterior part.
PHYLUM 16: Starting at N-7; worms.
PHYLUM 17: Starting at G-7; mostly not wormlike; has joined appendages.
PHYLUM 18: Starting at M-7; the brusly-skinned ones.
PHYLUM 19: Starting at F-8; the arrow worms.
PHYLUM 20: Starting at M-8; wormlike, but without grasping spines.
PHYLUM 21: Starting at K-12; adults have gill slits or vertebral columns or both.

A B C D E F G H I J K L M N O
1 b d o p o n s e m r t k b i
2 a r h i z o t n e a s y
3 u c a i d o p o c c e n t c
4 l n s p h a r e ri p l a h e
5 d i u e c o i a f o h a o z l
6 n a t h t n s a e y t c h m
7 g h a o p r a o l a h p e a i
8 o t e a s c u l t d s h t n
9 c l n t h d e r a a i e n o
10 f r s c r a z u b j w r m d g
11 n s v n y s a m a k n i p q u
12 g r y f r f t e x r c s t v n
13 t h r s t l a n i h w l d s d
14 n o t n i r d l o g n j i y i
15 b i t r z u n r k v i d u m o

PHYLUM 1: 
PHYLUM 2: 
PHYLUM 3: porifera
PHYLUM 4: 
PHYLUM 5: 
PHYLUM 6: 
PHYLUM 7: 
PHYLUM 8: 
PHYLUM 9: 
PHYLUM 10: 
PHYLUM 11: 
PHYLUM 12: 
PHYLUM 13: 
PHYLUM 14: 
PHYLUM 15: 
PHYLUM 16: 
PHYLUM 17: 
PHYLUM 18: 
PHYLUM 19: 
PHYLUM 20: 
PHYLUM 21: 

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