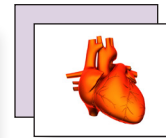


kids' kreation



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113

A BUTTERFLY'S Christ-given heart of rebirth

The Lord Jesus provides the butterfly a heart to help pump fluid into its wings and other body parts after emerging from its chrysalis.

The heart allows a butterfly to unfurl its wings, straighten its legs, and extend its coiled tongue.



Scientists have recently discovered that butterflies also have a special "wing heart." It beats a few dozen times per minute and helps direct the flow of the insects' blood.

PHOTO CREDITS

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CROSSWORD

The words used in the CROSSWORD are taken from the articles found in **CREATOR** Vol. 28 Num. 1.

Answers to CROSSWORD found in **kids' kreation** # 112

Across: 2. CLOUD 4. FEAR
5. AIR 6. SNOWSTORMS 8. BEAUTY
10. COLUMN 12. SIX 14. EXISTED
Down: 1. VAPOR 2. CRYSTALS
3. DIRT 7. NEEDLES 9. OXYGEN
11. MIRROR 13. SIN

Down

2. An electrocardiograph measures the _____ activity of your heart.
4. Hemoglobin carries _____ to the cells.
6. The bigger the animal, the _____ its heart rate.
7. The human heart is composed of two atria and two _____.
10. An _____ carries blood away from your heart.
11. The largest artery in your body is the _____.

Across

1. Jesus created three different blood vessels: arteries, _____, and capillaries.
3. A spider extends its legs, and a butterfly its tongue, using _____ pressure.
5. An animal's heart rate _____ while diving underwater.
8. Chronically high blood pressure is known as _____.
9. Your heart rate decreases when you _____.
12. Most invertebrates have an open _____ system.
13. William _____ was the first person to understand God's design of the heart and circulation.

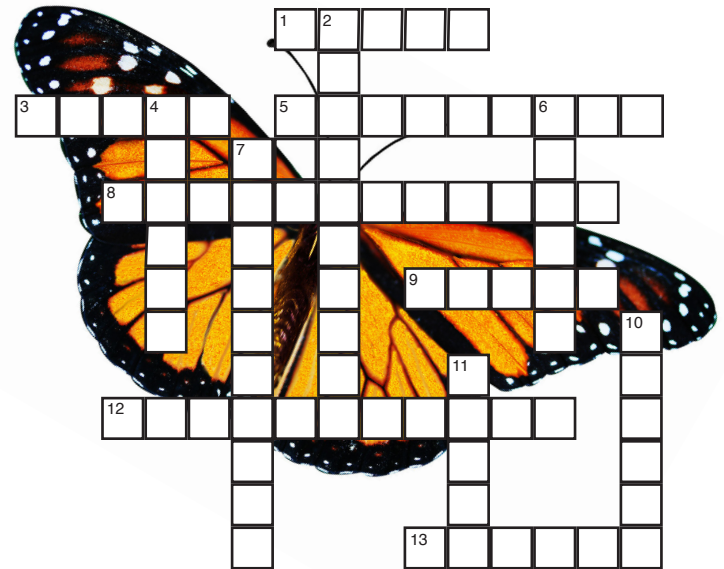
FAMILY ACTIVITY:

Make your own stethoscope(s)

A doctor uses an instrument called a stethoscope to listen to your heart. You can hear the sounds a heart makes right in your own home.

Go with a friend or family member to a very quiet place. Bring with you the cardboard tube from an empty roll of paper towels. Firmly place one end of the tube over the left chest of the person who is with you. Next, put your ear against the opening of the other end. What do you hear? You may need to change the position of the tube on their chest to hear the heart sounds best.

Another type of homemade stethoscope can be constructed using two small funnels and a piece



WORD SEARCH

WORD BANK

BEAVER	MYOCARDIUM	VALVES
CONTRACT	OSTIA	VERTEBRATE
EARTHWORM	PULSE	VESSELS
HEART	PUMP	WHALE
MUSCLES	SHREW	



V E S S E L S H A M
B E R E V A E B Y U
C I R D I A M O P S
C O N T R A C T E C
W E S T E A F V L L
E O G P R B L H A E
R N Q D M A R J H S
H S I K V U T A W O
S U E S L U P L T R
M M R O W H T R A E

of rubber tubing about one to two feet (one-half meter) long. Fit one end of the tubing over the small end of a funnel. Do the same with the other end of the tubing using the second funnel. Gently place the large opening of one funnel over the left chest area of your buddy. Then, put the large opening of the other funnel over your ear. Do you hear the "lub-dub, lub-dub" of their heart beating? These sounds are produced when the valves inside their heart snap shut. Count the number of beats in one minute, then ask your buddy to jog in place for two minutes and listen again. What happens to their heart rate? Why?