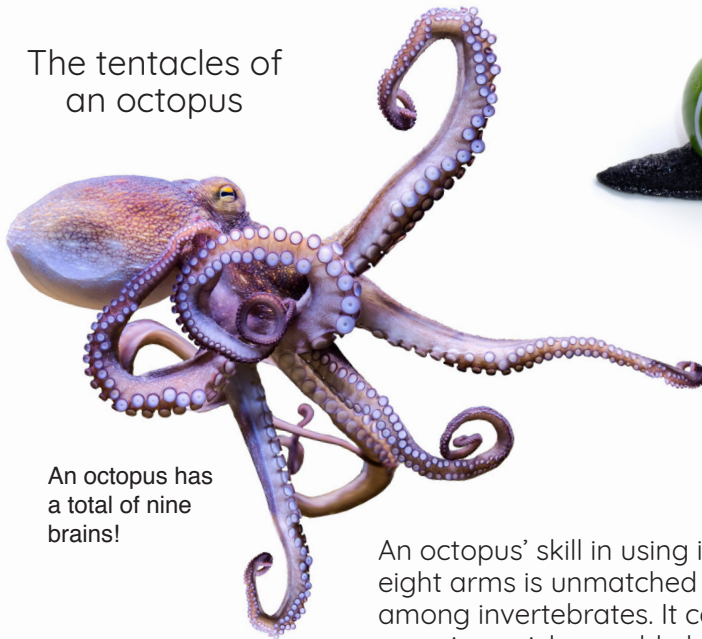


COMPLEX MUSCLES

With near-miraculous engineering!

Most muscles are attached to bones or an outer skeleton (exoskeleton of insects and spiders). Our Lord Jesus composed a very special set of muscles—muscular hydrostats—to work independently of bones.

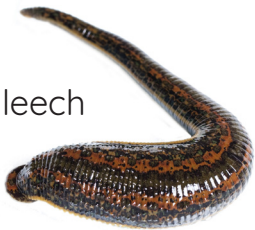
The tentacles of an octopus



An octopus has a total of nine brains!

An octopus' skill in using its eight arms is unmatched among invertebrates. It can open jars, pick up odd-shaped objects, and walk on the ocean floor. Each tentacle has its own brain and if an arm is lost, the octopus can regrow another!

A leech



An elephant's trunk may be the most complex muscular organ in the universe. God formed it by weaving together 40,000 individual muscles!



A snail's foot



The tongue

Our tongues possess four muscles that function together to form an almost endless variety of shapes, allowing us to create words, laugh, taste, and swallow food.

An elephant's trunk



CROSSWORD

The words used in the CROSSWORD and WORD SEARCH are taken from the articles found in **CREATOR** Volume 28 Number 2.

Answers to CROSSWORD found in **kids' kreation # 113**

Across: 1. VEINS 3. BLOOD
5. DECREASES 8. HYPERTENSION
9. SLEEP 12. CIRCULATORY 13. HARVEY
Down: 2. ELECTRICAL 4. OXYGEN
6. SLOWER 7. VENTRICLES 10. ARTERY
11. AORTA

Across

2. Heart or _____ muscle contracts about once a second.
7. Heart muscle has bands like skeletal muscles, yet like smooth muscle, it works _____.
9. For in Christ, "we live and _____ and have our being" (Acts 17:28).
10. If you are exposed to bright light, certain muscles in your iris automatically constrict the _____ of the pupils to prevent damage to your eyes.
11. Like the heart muscle, we can exercise our _____ in Christ and allow ourselves to be stretched.
13. Smooth muscles can maintain force longer than _____ muscles.
14. The stores of ATP in a skeletal muscle _____ are only enough to allow for a few seconds of maximum contraction.
15. There are several muscles in your _____ that Christ created to work without thinking about them.

Did you know . . .

that your fingers have no muscles?

WORD SEARCH

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

WORD BANK

BICEPS
BEAT
CARDIAC
CELL
FIBERS
FORCE
HEART
MOVE

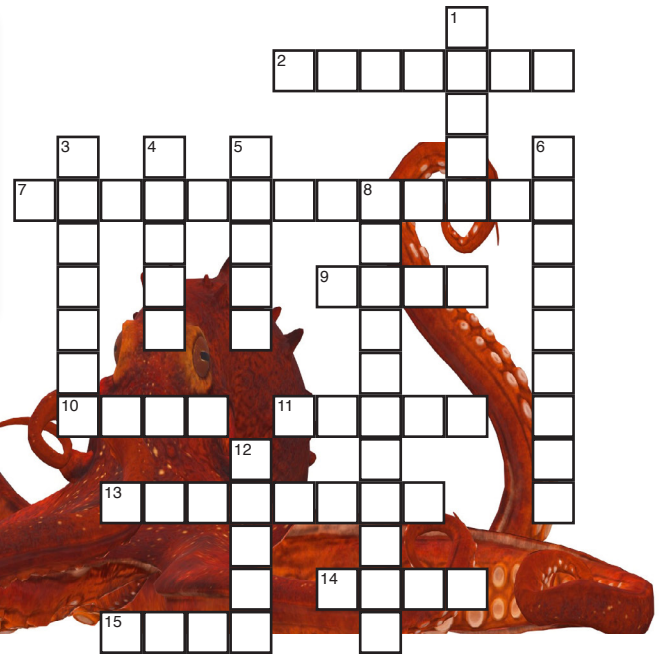
MUSCLES
MYOSIN
POWER
PROTEIN
SARCOMERE
SKELETAL
SMOOTH
VOLUNTARY

What is the strongest muscle in your body?

Answer below

Octopus—© Henner Damke / Shutterstock
Baby—© Can Stock Photo / phakimata
Leech—© 279photo Studio / Shutterstock
Snail—© Mark Brandon / Shutterstock
Elephants—© Can Stock Photo / frenta
Octopus—© Heba ru / Shutterstock

The strongest muscle in your body for its size is the masseter, which allows you to bite down on an apple.
The weakest muscle is the stapedius in your ear.



Down

1. Skeletal muscles are the most abundant tissue in adults, but the heart is the most _____ muscle type.
3. It's estimated that there are 8,000 different sports in the world, all requiring _____.
4. The large muscles of the legs produce a great deal of _____ but tire out quickly.
5. The smooth muscles of the stomach and intestines often produce long _____ of contraction.
6. _____ are the individual cells of a muscle.
8. Without a _____ effort, the heart could not function properly and we would die.
12. Christ made us male and female for His own _____ and He forbids mankind from trying to alter His Created Order!