

DOLPHIN RESEARCH CENTER

Dolphin Bodies

Dolphin Cranium Instructions

Object: Be the first team to reach the dolphin in the center and successfully complete a series of three tasks.

Materials:

- 1 die
- 1 stopwatch
- 2 game pieces
- Play-Doh™
- Blank paper and a pencil

Directions:

1. Split up into two teams of two.
2. Select a game piece for your team and place it on the box labeled “Start”.
3. The team with the person whose birthday is coming up next will start.
4. Select the type of task your team would like to complete.
5. The opposing team will draw your card and read the instructions aloud to you.
6. **If you are not successful**, your turn is over. **If you do successfully complete the task**, roll the die. Move your game piece the number of spaces indicated on your die. You must stop on each “Dolphin” space, even if your roll would otherwise take you past it. Your turn is now over. (The type of space you land on will specify the type of task you will be asked to complete during your next turn. If you land on a “Dolphin” space, you will be able to select the type of task your team will complete.)
7. The opposing team may now take their turn.
8. Once the opposing team has taken their turn, it is back to your team. Remember, the type of space your game piece is on specifies which type of task you will be asked to complete. A “dolphin” space means that you may choose the type of task your team will complete.
9. Proceed around the board until you reach the dolphin at the center.
10. On your team’s next turn, you will need to successfully complete a task from **all three** categories. If you do not successfully complete all three tasks, leave your game piece at the center. During your next turn, you will again need to attempt a task from all three categories.
11. The first team to reach the center and successfully complete all three tasks is the winner!

Hint: You will be asked to complete a task at the **beginning** of your turn and roll at the **end** of your turn.



Dolphin Bodies

This Page: Fun Facts Cards

<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What is the average life span of a bottlenose dolphin?</u></p> <p><i>Answer: 25 years</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>How many sets of teeth does a dolphin have during its lifetime?</u></p> <p><i>Answer: One</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>How many chambers make up a dolphin's stomach?</u></p> <p><i>Answer: Three</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What part of a dolphin's body is usually used to identify individual dolphins in the wild?</u></p> <p><i>Answer: The dorsal fin</i></p>
<p>To win this task, correctly answer the <u>multiple-choice</u> question below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What happens to a dolphin's lungs when the dolphin dives?</u></p> <p>a) They expand b) They collapse c) They aren't effected</p> <p><i>Answer: B</i></p>	<p>To win this task, correctly answer the <u>multiple-choice</u> question below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Which of the following structures contains bones?</u></p> <p>a) Dorsal fin b) Tail flukes c) Pectoral flippers</p> <p><i>Answer: C</i></p>	<p>To win this task correctly answer the <u>multiple-choice</u> question below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Medical staff will draw blood from a dolphin's tail flukes because:</u></p> <p>a) The veins are close to the surface in the tail b) It's easy to lift the tail out of the water c) The tail is big</p> <p><i>Answer: A</i></p>	<p>To win this task correctly answer the <u>multiple-choice</u> question below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What is a more likely explanation for the rods and cones in a dolphin's eye?</u></p> <p>a) Color vision b) Vision under various light intensities</p> <p><i>Answer: B</i></p>
<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Dolphins move their tails in a side-to-side motion when swimming.</u></p> <p><i>Answer: False (up & down)</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Dolphins cool their bodies by decreasing the flow of blood to the extremities.</u></p> <p><i>Answer: False (increasing)</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Dolphin skin is 10 times thicker than human skin.</u></p> <p><i>Answer: False (12 times)</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>An oily secretion helps protect a dolphin's eye from the salt water.</u></p> <p><i>Answer: True</i></p>



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This Page: Fun Facts Cards

<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>List the five characteristics of mammals.</u></p> <p><i>Answer: Breathe air, give live birth, nurse young, have hair, and warm-blooded (endothermic)</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>A dolphin's blood pressure will drop significantly as the dolphin dives and quickly rise as it surfaces. What organ allows a constant flow of blood to the brain despite these changes?</u></p> <p><i>Answer: Retia mirabilia</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What term is used to refer to the region just above the dolphin's tail flukes?</u></p> <p><i>Answer: Peduncle</i></p>	<p>To win this task, correctly answer the <u>question</u> below. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>What is the name for the snout at the front of a dolphin's face?</u></p> <p><i>Answer: Rostrum</i></p>
<p>To win this task, correctly answer the <u>multiple-choice</u> question below. After I read the question and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>A dolphin can hold its breath for approximately how long?</u></p> <p>a) 2.5 minutes b) 5.75 minutes c) 7.25 minutes</p> <p><i>Answer: C</i></p>	<p>To win this task, correctly answer the <u>multiple-choice</u> question below. After I read the question and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>What chamber of a dolphin's stomach is responsible for mechanical digestion?</u></p> <p>a) Forestomach b) Main stomach c) Pyloric stomach</p> <p><i>Answer: A</i></p>	<p>To win this task correctly answer the <u>multiple-choice</u> question below. After I read the question and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>The area of fatty tissue on the front of a dolphin's head is called the:</u></p> <p>a) Bumper b) Forehead c) Melon</p> <p><i>Answer: C</i></p>	<p>To win this task correctly answer the <u>multiple-choice</u> question below. After I read the question and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>What helps produce a watertight seal when a calf is nursing from mom?</u></p> <p>a) Lips b) Tongue fringes c) Teeth</p> <p><i>Answer: B</i></p>
<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Dolphins need a highly developed kidney system to filter out salt absorbed from the marine environment.</u></p> <p><i>Answer: True</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>Dolphins have a gap in between their front teeth. If there were teeth in this gap, they would interfere with nursing.</u></p> <p><i>Answer: True</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>The dolphin's dorsal fin contains bones and connective tissue.</u></p> <p><i>Answer: False (no bones)</i></p>	<p>To win this task, correctly determine if the statement below is <u>true or false</u>. After I read the question out loud, your team will have one minute to provide an answer.</p> <p><u>A dolphin's entire body is covered with a layer of blubber.</u></p> <p><i>Answer: False (not the fins, flippers, and flukes)</i></p>



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This Page: Dolphin Dictionary Cards

<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: Pupil shape SEERHOHOS</p> <p>Answer: <i>Horseshoe</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: Dolphin ancestor NOSEHIDCMY</p> <p>Answer: <i>Mesonychid</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: Blood regulator ABAIL ERIMIRATI</p> <p>Answer: <i>Retia mirabilia</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: Dolphin family PEELADDINI H</p> <p>Answer: <i>Delphinidae</i></p>
<p>To win this task, one team member must correctly <u>spell</u> the word below on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>ODONTOCETI</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>CETACEA</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>TEPETUM LUCIDUM</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>PYLORIC STOMACH</p>
<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to provide an answer.</p> <p>Ocular</p> <p>a) Pertaining to the eyes b) Pertaining to the ears c) Pertaining to the mouth</p> <p>Answer: <i>A</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to answer.</p> <p>Phalanges</p> <p>a) Shoulder bones b) Arm bones c) Finger bones</p> <p>Answer: <i>C</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to answer.</p> <p>Vein</p> <p>a) Structure to carry blood towards the heart b) Structure to carry blood away from the heart</p> <p>Answer: <i>A</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to answer.</p> <p>Goose beak</p> <p>a) Connects top jaw to bottom jaw b) Connects blowhole to trachea c) Connects mouth to esophagus</p> <p>Answer: <i>B</i></p>



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<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: <u>Dolphin relative</u> PISERPOO</p> <p>Answer: <i>Porpoise</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: <u>Bony core</u> NKOSTEEL</p> <p>Answer: <i>Skeleton</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: <u>Blood protein</u> OOBGLIMNY</p> <p>Answer: <i>Myoglobin</i></p>	<p>To win this task, your team will need to <u>unscramble</u> the letters below to form a word pertaining to dolphin anatomy and physiology. After I read the hint aloud, I will write the scrambled word on blank paper and hand it to your team. You will have one minute to provide an answer.</p> <p>Hint: <u>Age estimator</u> EELMAN GRINS</p> <p>Answer: <i>Enamel rings</i></p>
<p>To win this task, one team member must correctly <u>spell</u> the word below <u>backwards</u> on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>PEDUNCLE</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below <u>backwards</u> on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>ROSTRUM</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below <u>backwards</u> on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>PECTORAL FIN</p>	<p>To win this task, one team member must correctly <u>spell</u> the word below <u>backwards</u> on the first attempt. You may not write anything down first! After I read the word out loud, your team will have one minute to provide an answer.</p> <p>BLOWHOLE</p>
<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>Dorsal Side</u></p> <p>a) An animal's left side b) An animal's right side c) An animal's top side</p> <p>Answer: <i>C</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>Blubber Layer</u></p> <p>a) Modified epidermis b) Modified dermis c) Modified hypodermis</p> <p>Answer: <i>C</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>Anatomy</u></p> <p>a) The structure of an organism or its parts b) The study of functions of organisms or their parts</p> <p>Answer: <i>A</i></p>	<p>To win this task, your team must select the correct <u>definition</u> for the word below. After I read the word and answer choices out loud, your team will have one minute to provide an answer.</p> <p><u>Physiology</u></p> <p>a) The structure of an organism or its parts b) The study of functions of organisms or their parts</p> <p>Answer: <i>B</i></p>



Dolphin Bodies

This Page: Anatomical Art Cards

<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DORSAL FIN</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN KIDNEY</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>TOUNGE FRINGES</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>GOOSE BEAK</p>
<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>FEMALE DOLPHIN</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>BONE STRUCTURE IN PECTORAL FLIPPER</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN SKULL</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>ROSTRUM HAIRS</p>
<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>ROSTRUM</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN PUPIL</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN TOOTH</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>TAIL FLUKES</p>



Dolphin Bodies

This Page: Anatomical Art Cards

<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>LOWER JAW BONE</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>MELON</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>VEIN</p>	<p>To win this task, one team member must use Play-Doh™ to <u>sculpt</u> the subject listed below. Hand gestures and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>PEDUNCLE</p>
<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN STOMACH</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>BLUBBER LAYER</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>ODONTOCETE</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below. Letters, numbers, and talking are not allowed! I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>MICRO DERMAL RIDGES</p>
<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>BLOWHOLE</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN CALF</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>LOWER JAW BONE</p>	<p>To win this task, one team member must use the paper and pencil to <u>draw</u> clues about the subject listed below with his/her <u>eyes closed</u>. Letters, numbers, talking, and peeking are not allowed. I will pass the card to your team's artist, and your team will have one minute to guess the answer.</p> <p>DOLPHIN EAR</p>



Dolphin Cranium Game Board

