Blue Whales: Giant Mammals

1. **baleen** [Noun]
   Sentence: A humpback whale uses baleen in its mouth to feed.
   Definition: a material in the mouth of certain whales that filters food from ocean water

2. **buoyancy** [Noun] buoy•an•cy
   Sentence: The ability of an object to float instead of sink is called buoyancy.
   Definition: the ability or tendency to float

3. **cetacean** [Noun]
   Sentence: A cetacean has a thick layer of blubber to keep it warm in the ocean.
   Definition: any kind of whale, including a dolphin or a porpoise

4. **fluke** [Noun] fluke
   Sentence: We saw that the whale's right fluke had many scars on it.
   Definition: one of the halves of a whale's tail

5. **krill** [Noun] krill
   Sentence: An adult blue whale may eat up to four tons of krill each day.
   Definition: tiny crustaceans that live in oceans and are food for many other animals

6. **sonar** [Noun] so•nar
   Sentence: sonar uses sound to find and measure objects that are under water.
   Definition: a system that sends high-frequency sound waves through water and registers the vibrations bounced back by an object

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baleen
(noun)

1. **Baleen** is a material in the mouth of certain whales that filters food from ocean water.
2. Humpback and blue whales each have **baleen**.
3. **Baleen** looks similar to a long comb made of thick hair.

buoyancy
(noun)

1. **Buoyancy** is the ability or tendency to float, usually in water or another liquid.
2. Because wood floats, we can say it has **buoyancy**.
3. The principle of **buoyancy** is known as the law of hydrostatics.

cetacean
(noun)

1. A **cetacean** is any kind of whale, including a dolphin or a porpoise.
2. A **cetacean** may have teeth or baleen plates, which function like a giant filter, straining food from ocean water.
3. A **cetacean**, or whale, has one or two blowholes on the top of its head for breathing.

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fluke
(noun)

1. Each **fluke**, or half of the whale's tail, was eight feet long.
2. The whale's right **fluke** nearly hit the side of our boat when it dived.
3. The scientists put the tracker on the left **fluke** of the whale to follow its movements around the ocean.

krill
(noun)

1. **Krill** are tiny, shrimp-like crustaceans that are food for many animals, including squid, sea birds, whales, and some seals.
2. **Krill**, which look similar to small shrimp, are cousins of lobsters and crab.
3. **Krill** are the main food of blue whales.

sonar
(noun)

1. **Sonar** is used to determine the presence, location, or nature of objects in the sea.
2. **Sonar** is an acronym for sound navigation and ranging.
3. A **sonar** system works by sending out a sound and measuring how long it takes for the sound to reflect, or bounce back.

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Name: _____

INSTRUCTIONS: Record a vocabulary word in each word box. Then write a synonym and an antonym, draw a picture, and define each word. Use each word in a sentence on the back of this worksheet.

Word	Picture
_____	

_____
Synonym

_____
Antonym

Definition _____

_____

Word	Picture
_____	

_____
Synonym

_____
Antonym

Definition _____

_____

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baleen

a material in the mouth of certain whales that filters food from ocean water
(noun)

buoyancy

the ability or tendency to float
(noun)

cetacean

any kind of whale, including a dolphin or a porpoise
(noun)

fluke

one of the halves of a whale's tail
(noun)

krill

tiny crustaceans that live in oceans and are food for many other animals
(noun)

sonar

a system that sends high-frequency sound waves through water and registers the vibrations bounced back by an object
(noun)

Name: _____

An **analogy** shows a relationship between two sets of words. The words in the first pair must have the same relationship as the words in the second pair. To complete an analogy with a missing word, you must first discover the relationship between the completed pair. (Example: *Cat is to meow as dog is to bark.*)

decent	seal	bite	fish	mollusk	radio waves

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

1. **Buoyancy** is to *buoyant* ...as... **decency** is to _____.
2. **Fluke** is to *whale* ...as... **tail fin** is to _____.
3. **Baleen** is to *filter* ...as... **teeth** are to _____.
4. **Cetacean** is to *dolphin* ...as... **pinniped** is to _____.

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Name: _____

An **analogy** shows a relationship between two sets of words. The words in the first pair must have the same relationship as the words in the second pair. To complete an analogy with a missing word, you must first discover the relationship between the completed pair. (Example: *Cat is to meow as dog is to bark.*)

radio waves	seal	bite	mollusk	fish	decent

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

5. **Krill** is to *crustacean* ...as... **octopus** is to _____.

6. **Sonar** is to *sound waves* ...as... **radar** is to _____.

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Name: _____

krill	sonar	fluke	cetacean	baleen	buoyancy

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

1. A _____ has a thick layer of blubber to keep it warm in the ocean.

2. A humpback whale uses _____ in its mouth to feed.

3. The ability of an object to float instead of sink is called _____.

4. We saw that the whale's right _____ had many scars on it.

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Name: _____

sonar	fluke	baleen	cetacean	krill	buoyancy

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

5. _____ uses sound to find and measure objects that are under water.

6. An adult blue whale may eat up to four tons of _____ each day.

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INSTRUCTIONS: Assign one or more of the following activities to reinforce the function of nouns.

NOUNS

Draw a Picture

Materials: Word cards; box or envelope; paper; pencils, markers, or crayons

Place all the word cards in a box or envelope. Have students pull out a word card and draw a picture of the chosen word. Encourage them to draw a picture that illustrates the word's meaning.

Make a Picture Dictionary

Materials: Paper; pencils, markers, or crayons

Have students create a picture dictionary for the word list by writing their own definitions and drawing their own illustrations in their book.

Make a Sentence

Materials: Word cards, box or envelope, strips of paper

Place all the word cards in a box or envelope. Have students pull out a word card and use their chosen word to create a written or oral sentence.

Match a Word

Materials: Word cards, tape, box or envelope

Place all the word cards in a box or envelope. Have students pull out a word card and tape it onto an object in the classroom using the word as a label.

Mime It!

Materials: Word cards, box or envelope

Place all the word cards in a box or envelope. Have students pull out a word card and act it out. Have classmates try to guess the word.

Pick a Synonym or Antonym

Materials: Word cards

Place all the word cards in a box or envelope. Have students pull out a word card and give a synonym or an antonym for the chosen word. (You may choose to omit words that do not have synonyms or antonyms, or you may choose to include them as points of discussion.)

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Name: _____

INSTRUCTIONS: Use what you know about the vocabulary words to complete the following sentences.

1. **Sonar** is used to find and measure things that are _____.
2. **Krill** are cousins of _____.
3. A **cetacean** is a _____.
4. The **buoyancy** of an object causes it to _____.
5. A **fluke** is _____.
6. **Baleen** is a material found in _____.

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Name: _____

INSTRUCTIONS: Choose the best answer to complete each statement.

1. Baleen is used to _____.
   - ⓐ chew
   - ⓑ filter food
   - ⓒ breathe

2. Buoyancy is the tendency of an object to _____.
   - ⓐ sink
   - ⓑ burn
   - ⓒ float

3. A cetacean would not have _____ in its mouth.
   - ⓐ baleen
   - ⓑ blowholes
   - ⓒ teeth

4. The word *fluke* is _____.
   - ⓐ a noun
   - ⓑ an adjective
   - ⓒ a verb

5. Krill look like small _____.
   - ⓐ shrimp
   - ⓑ crabs
   - ⓒ fish

6. Sonar is a system that sends sound waves through what?
   - ⓐ land
   - ⓑ water
   - ⓒ the air

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