

Class: _____ Name: _____

Unit 1 Invertebrates

A. Fill in the blanks with the correct words.

make up firm tube transparent sharp

Synonym	Antonym
1) form = _____	3) soft <-> _____
2) pipe = _____	4) dull <-> _____
	5) unclear <-> _____

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

In the animal kingdom, there are two types of animals: vertebrates and invertebrates. Vertebrates are animals with a backbone, such as mammals, birds, and fish. Invertebrates are animals without a backbone, such as worms and insects. Surprisingly, invertebrates make up about 97% of our animal kingdom. There are many different types.

- 1) a kind; a category _____
- 2) the line of bones down the center of the back _____
- 3) an animal that feeds its young with its milk _____
- 4) without being expected _____

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Unit 2 Head-Footed Animals

A. Fill in the blanks with the correct words.

involve similar steer hunt

Synonym	Antonym
1) catch = _____	4) unlike <-> _____
2) drive = _____	
3) include = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Octopuses and squids live in every ocean, but they live in different areas. Octopuses live in dens on the seafloor and hunt alone. However, most squids like open water and hunt in groups. Both octopuses and squids move using jet propulsion. This involves repeatedly squirting water into the sea. When in danger, they both release dark ink into the water. This blinds their predators and helps them escape.

- 1) a wild animal's home _____
- 2) over and over; many times _____
- 3) the possibility that something bad will happen _____
- 4) to make someone unable to see _____

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Unit 3 Ask NYPL

A. Fill in the blanks with the correct words.

average knowledgeable public simply basic

Synonym	Antonym
1) only; just = _____	3) extraordinary <-> _____
2) intelligent = _____	4) private <-> _____
	5) complicated <-> _____

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

In 1968, the New York Public Library created a public telephone service called Ask NYPL. The service allowed New Yorkers to call into the library and ask questions. A team of librarians were waiting to answer the questions. People called and asked all sorts of questions to the NYPL's librarians.

- 1) to make or invent new things _____
- 2) a system that helps people with what they need _____
- 3) to give someone a chance to do something _____
- 4) a group of people working together _____

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Unit 4 Bookmobiles

A. Fill in the blanks with the correct words.

deliver remote local convenient represent

Synonym	Antonym
1) bring = _____	3) foreign <-> _____
2) mean = _____	4) inconvenient <-> _____
	5) central <-> _____

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Bookmobiles, or mobile libraries, deliver books and library services to people in remote areas. These remote areas usually do not have their own library. So a library must come to them. Almost any vehicle can be used as a bookmobile. From the 19th to early 20th century, horse-drawn vans and wagons were commonly used. Later on, cars and trucks became a more popular form.

- 1) able to move around _____
- 2) most; nearly _____
- 3) a machine that can move people or things on land _____
- 4) a type; a mode _____

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Unit 5 The Mysterious Street Artist

A. Fill in the blanks with the correct words.

multiple discover illegal mysterious anonymous

Synonym	Antonym
1) unknown = _____	3) familiar <-> _____
2) many = _____	4) hide <-> _____
	5) legal <-> _____

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Banksy's main art style is stencil graffiti. A stencil is a cut-out design that can be used multiple times. Using stencils with spray paint, Banksy can create his art and disappear quickly. It allows him to remain a mysterious artist.

- 1) most important; primary _____
- 2) a particular way of doing something _____
- 3) to go away; to stop being seen or found _____
- 4) to stay the same; to continue as it is _____

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Unit 6 Graffiti That Grows

A. Fill in the blanks with the correct words.

positive eventually harsh harmful

Synonym	Antonym
1) finally = _____	3) harmless <-> _____
2) helpful = _____	4) gentle <-> _____

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

Moss graffiti is safe for people and the environment. It is safe because the paint is made with moss. Moss is a type of green plant that has tiny leaves. It usually grows on rocks, tree bark, or wet grounds. Making the moss paint is easy. It is a simple mix of moss, yogurt or buttermilk, water, and cornstarch. Once moss graffiti is made, the moss grows thicker over time. Eventually, it will have a beautiful, 3D effect.

- 1) not dangerous; good _____
- 2) having water; being covered in water _____
- 3) a combination of two or more things _____
- 4) a result _____

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Unit 7 The Long Road to Steel

A. Fill in the blanks with the correct words.

ancient durable superior invent

Synonym	Antonym
1) long-lasting = _____	4) modern <-> _____
2) better = _____	
3) design = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

In 3300 BC, the Bronze Age began. During this ancient era, humans started working with metals for the first time. The main material was bronze. It is a combination of two metals, copper and tin. Bronze was widely used to make weapons and tools. However, the problem was that tin was often hard to find. So humans searched for a new metal to work with.

- 1) a hard material made of minerals _____
- 2) in many places; by many people _____
- 3) a thing used in fighting or war _____
- 4) to look for something; to seek _____

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Unit 8 Stainless Steel

A. Fill in the blanks with the correct words.

appliance nature regular protective

Synonym	Antonym
1) quality = _____	3) special <-> _____
2) device = _____	4) harmful <-> _____

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Stainless steel is similar to regular steel. Both are iron metal alloys. That means they are both made by combining iron with other elements. The key difference is that stainless steel contains a metal called chromium. Due to the presence of roughly 11% chromium, stainless steel is extremely rust-resistant.

- 1) very important; main _____
- 2) because of _____
- 3) not exactly; around _____
- 4) very _____

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Unit 9 Esports

A. Fill in the blanks with the correct words.

strategy individual advertise earn celebrity

Synonym	Antonym
1) plan = _____	4) group <-> _____
2) promote = _____	5) lose <-> _____
3) star = _____	

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

Fans can watch the competitions in person, on cable television, or on online streaming platforms. Fans of esports usually enjoy playing video games themselves. They like watching pro gamers compete because they can learn game strategy from them. Some pro gamers have become celebrities. These celebrities even have their own fan clubs!

- 1) physically being there _____
- 2) playing music or videos directly from the internet _____
- 3) a channel for communication or entertainment _____
- 4) someone who does an activity for a living _____

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Unit 10 How Pro Gamers Train

A. Fill in the blanks with the correct words.

overall review weakness recover

Synonym	Antonym
1) analyze = _____	3) strength <-> _____
2) heal = _____	4) specific <-> _____

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

Pro gamers eat healthy diets because it improves their performance. By eating healthfully, they avoid sugar crashes and brain fog during long matches. There are other ways pro gamers improve their mental health. They do meditation to control stress. And they make sure they get enough sleep each night. Sleep helps their brains recover from stressful matches.

- 1) the food that someone usually eats _____
- 2) to stay away from something _____
- 3) a competition; a game _____
- 4) to manage or limit something _____

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Unit 11 Sugar in Our Body

A. Fill in the blanks with the correct words.

function primary immediately essential balance

Synonym	Antonym
1) work = _____	4) last <-> _____
2) instantly = _____	5) optional <-> _____
3) harmony = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Sugar is actually a natural substance. It is in all kinds of foods we eat such as fruits, vegetables, bread, rice, and cakes. When we digest these foods, the sugar breaks down into glucose. Then, through our blood, the glucose can go into our cells. There, it can immediately be used for energy.

- 1) not made by people; found in nature _____
- 2) to pass food through the body _____
- 3) to become smaller, separate parts _____
- 4) by way of _____

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Unit 12 Choosing the Right Juice

A. Fill in the blanks with the correct words.

flavor worst choice artificial whole

Synonym	Antonym
1) taste = _____	4) best <-> _____
2) complete = _____	5) natural <-> _____
3) option = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

The worst choice is juice labeled "cocktails" or "drinks." Usually, this kind of juice contains almost no real fruit. Instead of real fruit, it mostly consists of artificial colors and flavors, and lots of added sugar. So it is high in sugar, but low in nutrients.

- 1) to put a name or description on something _____
- 2) to have; to include _____
- 3) to be formed from things _____
- 4) extra _____

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Unit 13 The Origin of the Metric System

A. Fill in the blanks with the correct words.

standard divide distance accurately debate

Synonym	Antonym
1) split = _____	4) incorrectly <-> _____
2) guideline = _____	5) agreement <-> _____
3) length = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

Long ago, people based measurements on parts of the human body. For example, a "foot" was the length of a man's foot. And a "handful" was the amount a human hand could hold at one time. However, these types of measurements were not consistent because everyone's body parts are different sizes. Gradually, people wanted a measurement system that was based on consistent standards.

- 1) the size or weight of something _____
- 2) to have or carry something _____
- 3) staying the same _____
- 4) slowly over time; little by little _____

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Unit 14 Calendars Then and Now

A. Fill in the blanks with the correct words.

replace inaccurate location track countless

Synonym	Antonym
1) numerous = _____	5) accurate <-> _____
2) switch = _____	
3) position = _____	
4) follow = _____	

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

Today, most countries use the Gregorian calendar which was created in 1582. It is the same as the Julian calendar except for one key difference. The Gregorian calendar skips a leap year three times every 400 years. That makes each year exactly 365.24 days. Finally, humans have a calendar that accurately tracks time.

- 1) the present day; now _____
- 2) but not; not including _____
- 3) to jump over one thing in order to go to another _____
- 4) in a perfectly correct way _____

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Unit 15 The Smog Free Project

A. Fill in the blanks with the correct words.

purify device harm reality install

Synonym	Antonym
1) hurt, damage = _____	4) pollute <-> _____
2) machine = _____	5) remove <-> _____
3) truth = _____	

B. Read the definitions and write the correct words from the paragraph. (Use the base form.)

A Smog Free Tower is a 7-meter tall outdoor air purifier. Placed in city parks, the towers function as giant smog vacuum cleaners. Instead of dust on the floor, they suck up and purify smoggy air. Each tower can purify 30,000 m³ of smoggy air per hour. That is the air of about 10 hot-air balloons! Smog Free Towers have been installed in countries like South Korea, China, Poland, and the Netherlands.

- 1) relating to outside _____
- 2) very big _____
- 3) to pull or take in _____
- 4) affected by smog; full of smog _____

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Unit 16 The Zero-Waste Movement

A. Fill in the blanks with the correct words.

follow secondhand produce luxurious necessary

Synonym	Antonym
1) generate = _____	3) cheap <-> _____
2) essential = _____	4) ignore <-> _____
	5) new <-> _____

B. Read the definitions and write the correct words from the paragraph.

(Use the base form.)

To reuse more, zero-wasters take various actions in their daily lives. When shopping, they use reusable cloth bags. When getting takeout at restaurants, they use reusable containers. After eating, they compost their leftover food. When cleaning their houses, they use reusable cloth towels. And if something breaks, they fix it instead of buying a new one.

- 1) many different; several _____
- 2) everyday; happening every day or regularly _____
- 3) able to be used again _____
- 4) to use food waste to make soil _____