

Answer Key

Note: Graphic Organizer answers are suggestions only and may not match students' answers exactly.

Preview Test

01 Science

- (D)
- (A)
- (C)
- (C)
- (B)
-

	Labrador Tea	Saxifrage	Marsh Marigold
Has hairy leaves		✓	
Grows in clumps	✓		
Flowers follow the sun			✓
Grows close to ground	✓	✓	✓

02 Geography

- (C)
- (D)
- (C)
- (B)
- (A)
- (B)

03 Service Encounter

- (B)
- (C)
- (A)
- (B)
-

	YES	NO
Look up companies in the phone book	✓	
Make and sell her own artwork		✓
Apply to teach art to kids	✓	
Schedule a mock interview	✓	

Chapter 1 Main Idea Questions

01 Music

Cool Jazz	
Cause	Effect
European influence, use of new instruments	Gave jazz a softer sound
	Larger jazz bands
Greater focus on the individual	People come specifically to see musician

- (A)
- (A)

Summary: The professor is talking about cool jazz from the 1940s and '50s. This jazz had more classical European influences than earlier forms of jazz. This meant that jazz musicians could also use instruments like flutes and tubas. The music sounded lighter and softer and jazz bands became bigger. Bands grew to be mid-sized orchestrated groups and also gave individuals more focus. The first true cool jazz icon was Miles Davis. He made a famous recording that brought him much recognition as a musical artist.

02 Geology

How Diamonds are Formed			
Step 1	Step 2	Step 3	Step 4
Carbon molecules rearrange and crystallize	Magma rises up to Earth's surface and erupts from a volcano	Magma hardens into rock	Rock weathers away, revealing a diamond for someone to find

- (A)
- (C)

Summary: The professor explains how diamonds are formed from lumps of coal. Coal is made from carbon molecules that change due to heat and pressure. The coal lumps are found about 160 kilometers inside the Earth. The temperature here is about 2200 degrees Fahrenheit. These conditions change the molecules of coal which crystallize to form a diamond. When volcanoes erupt, molten rock or magma containing diamonds is pushed upward. The rock then hardens and weathers away over time to reveal the diamonds.

03 Office Visit

School Trip	
Problem	Solution
Kim can't afford to go on a trip	Use money from her job
	Apply for a scholarship

- (C)
- (C)

Summary: A student speaks to her professor about going on a summer trip to study the Great Barrier Reef. Kim is in college, and this trip is organized by her school. She can't afford it, so the professor tells her to apply for a scholarship that is awarded to ten students per semester. She needs a GPA of 3.0 to get it, and her's is 3.7. The professor agrees to write her a recommendation, and Kim says she appreciates his help.

04 Service Encounter

Misplaced Book	
Problem	Solution
Student can't find a book	Librarian finds book in the library's database

1. (B) 2. (C)

Summary: A student is searching the library for a biography of poet James Wright. He asks the librarian for help so she asks him for the book's call number. She uses this number to search the library catalogue for the book. The librarian cannot find it there but realizes it may have been scanned as a document. By checking the computer database, she finds it. Now the student can print it out to complete his paper on time.

05 History

Who Discovered America?	
Theory	Support
Christopher Columbus	Came to America in 1492
Polynesians	Chicken bone found

1. (C) 2. (B)

Summary: A history professor is talking about Christopher Columbus. He believes Columbus was not the first outsider in the Americas. He says new evidence has shown that Polynesians came there before 1492. Scientists know this from a chicken bone found in Chile. The bone was from a chicken from the Polynesian Islands. One of the students is not convinced that the bone disproves Columbus was there first. The professor explains that the bone predates Columbus's arrival by more than one hundred years.

06 Biology

Sickle-Cell Trait	
Cause	Effect
Children inherit sickle-cell trait from parents	Inheriting from both parents causes a deadly disease
	Inheriting from one parent helps protect against malaria

1. (B) 2. (B)

Summary: The biology professor is discussing sickle-cell disease. This disease is genetic which means you inherit it from your parents. If you get it from both your parents, you

will get sick and die. If you get the sickle-cell trait from only one parent, you will live. You will also be immune to malaria, another dangerous disease. Malaria is a parasitic disease carried by mosquitoes.

07 Office Visit

Retaking a Class	
Problem	Solution
Wants to take a class again	Become the professor's TA

1. (D) 2. (B)

Summary: Brenda is talking to Professor Brown about his Tribal Culture course. She is fascinated by it and wants to repeat the class. Professor Brown tells Brenda about his course for the next semester. It will focus on a tribe of African warriors called the Masai. He also tells her she will not get any credits for taking his class a second time. He suggests that she become his teacher's assistant. Then she will get a credit for repeating his class.

08 Service Encounter

Parking Problem				
Issue	Solution 1	Solution 2	Concern	Refutation
Student needs to find a place to park	Attendant suggests parking at parking meters	Attendant suggests student use the parking structure	Student thinks it will be too expensive	Attendant says structure costs less at the time of her class

1. (C) 2. (D)

Summary: A student wants to buy a parking permit for one semester. The student does not want to pay for the whole year because she is going to graduate soon. The man explains that the university doesn't sell semester increments and tells her to try the parking meters. The student says she won't have time to fill the meter. She is scared her car will be towed or ticketed. The man says she could park at the visitor's parking structure.

09 History

Mayan's Disappearance	
Theory	Support
Disappeared after a series of droughts destroyed food source	Evidence for dry periods found in sediment samples taken off the coast of Venezuela

1. (C) 2. (A)

Summary: The professor explains to his history class that droughts destroyed the Mayan people. They needed water to produce corn. Without water, their major food source did not survive and so their civilization perished. Scientists have made some amazing discoveries to prove this. They analyzed parts or segments of the ocean floor near Venezuela. The cores of the ocean floor are made of layers of light and dark sediment. The layers show how little rain fell there hundreds of years ago.

10 Zoology

The Complex Language of Prairie Dogs	
Theory	Support
Prairie dogs can communicate through a complex language	Digital records show specific repeated patterns of sound
	Have terms for different objects
Language is a learned skill	Different prairie dog communities have different dialects

1. (A) 2. (A)

Summary: The professor says prairie dogs may have the most sophisticated language in the animal world. Scientists recorded their barks and yips and analyzed them. They found that these dogs use nouns, verbs, and adjectives, and distinguish between colors. Their language is not universal and they use different dialects in different areas. The dogs also make up new words. During a test, they made up a word for an oval shape. They use their language to defend themselves.

Chapter 2 Detail Questions

01 Astronomy

Why Venus is Hotter than Mercury	
Cause	Effect
High amount of greenhouse gases	Thick atmosphere
	Keeps heat from escaping

1. (B) 2. (B) 3. (C)

Summary: A professor explains to his astronomy class why Venus is hotter than Mercury. Venus is twice the distance from the sun than Mercury is, yet it is much hotter. This is because Venus has a thick atmosphere while Mercury has none. The sun's heat is thus trapped on the surface of the planet by carbon dioxide gas. Venus used to contain water like Earth, but it evaporated long ago. This helped create a lot of greenhouse gases which trap heat.

02 Botany

Functions of Cell Walls and Chloroplasts	
Plant Part	Role
Cell Walls	Provides support to the plant
	Prevents harmful substances from entering cell
Chloroplasts	Gives plants their green color
	Absorbs sunlight to create food

1. (D) 2. (C) 3. (C)

Summary: The teacher is discussing the differences between plant and animal cells. Animals have skeletons to give their bodies shape and structure. Plant cells have cell walls to provide shape and structure. The cell walls are rigid structures around the cell membrane. They give cells support and stop harmful substances from getting in. Plant cells also contain organelles called chloroplasts which absorb sunlight. They use this light along with water and carbon dioxide to make food for the plant.

03 Office Visit

Turning in a Late Project			
Issue	Solution	Concern	Refutation
Student was sick and couldn't turn in project	Student tries to turn it in late	It's against the professor's policy to accept late work	She'll make an exception to the rule

1. (A) 2. (A) 3. (C)

Summary: A student's essay on the economic recession is late. The professor is not happy because the student skipped class. The student tells the professor he was sick the day the essay was due. He says he knows that the professor likes to enforce the rule about late work. He says that he worked really hard and couldn't find a number to call. The professor tells him it's okay but that next time he should email her from a neighbor's house.

04 Service Encounter

Scholarship	
Problem	Solution
Student is going to lose her scholarship	Write to the scholarship committee and ask if she can take a summer course for the required credit

1. (B) 2. (C) 3. (C)

Summary: A student must drop a class due to a work conflict. If she stops taking the class, she will lose her scholarship. It's also too late in the semester to transfer to another course. The registrar suggests she take a summer course that will give her the credits she needs. To get into this program, she needs to write a letter to the university's scholarship committee. She must explain her situation, and then they will review her case and decide.

05 Literature

Greek and Roman Plays vs. Morality Plays		
Greek and Roman Plays	Both Plays	Morality Plays
Fully developed main characters	Has a villain	Main character represents humanity as a whole
Main character has a flaw within himself		Main character actually encounters the villain, which is a vice

1. (A) 2. (B) 3. (B)

Summary: This literature class is studying morality plays from the Middle Ages. The professor explains that many characters in these plays were simple and not complex. They represented good qualities called virtues, or bad qualities called vices. The most evil character represented vices like greed. He was the villain of the play. He always tried to make the main character, Everyman, follow him. Everyman had to choose between following him and doing the right thing.

06 Geology

Formation of the Hawaiian Islands			
Step 1	Step 2	Step 3	Step 4
A hotspot in the Pacific Ocean releases lava	Lava builds up and forms a volcano	The volcano gets bigger and becomes an island	The plate carries this island away, and new one is made in the same spot

1. (C) 2. (B) 3. (C)

Summary: The professor mentions that there is a volcanic hotspot located under the Hawaiian chain of islands. This hotspot formed these islands. How this works is that a stream of hot lava erupts onto the ocean floor. The lava cools and hardens, forming a volcano. This lava keeps spewing out until the volcano builds up to such a size that an island is produced. When this island moves, more lava produces more islands in the gap. Then an island chain is formed.

07 Office Visit

Rescheduling	
Problem	Solution
Dance recital scheduled at the same time as final	Reschedule the final if department head allows it

1. (C) 2. (C) 3. (A)

Summary: Steven is a dance major who wants to reschedule his English final. This is because he has a mandatory dance recital on the same day as his English exam. There is a scheduling conflict between the two exams. His professor tells him he will have to talk to the head of the English department. He must prove that the dance exam conflicts with the English one by getting notes from his dance teachers.

08 Service Encounter

Disenrollment			
Problem	Solution	Concern	Refutation
A student has been disenrolled	He needs to re-register for his classes	Class might fill up	Talk with class professor

1. (A) 2. (C) 3. (A)

Summary: A student has been disenrolled from his classes. The cashier uses his student ID to check what the reason is. She tells him this has happened because he owes \$75 for a yoga class which he forgot to pay. He will also have to register again for all his classes. He has been credited for what he's paid so he won't have to pay again. To keep his class that's filled to capacity, he must explain the situation to his professor.

09 Botany

How a Strangler Vine Kills a Tree			
Step 1	Step 2	Step 3	Step 4
Seed is dropped at the top of a tree	Vine grows downwards until it reaches the tree's roots	Vine thickens and flattens out until it completely encases the tree	Vine kills the tree by squeezing it to death or by blocking its sunlight

1. (B) 2. (D) 3. (C)

Summary: The professor is talking about the strangler vine. Plants killed by this vine experience an agonizing death. The vine's seeds grow on top of the leaf canopy in South American rainforests. They then begin to grow downward. Once they are rooted in the ground, they merge. They get thicker and flatten out so that they can encase trees completely. The trees die from being squeezed or getting no sunlight. Then they rot away leaving the vine in their form.

10 Fine Arts

Picasso's Rose Period	
Definition	Characteristic
A period of Pablo Picasso's art	Used more happier colors, like pink and orange; used less sad colors like blue
	Celebrated outsiders in society, like members of the circus, especially the harlequin clown

1. (A) 2. (C) 3. (D)

Summary: The professor is discussing the work of Pablo Picasso. Students have learned that during his "blue" period, Picasso painted using dark, depressing colors. This was because he was mourning the death of a close friend who died in 1901. When Picasso fell in love around 1904, he became more optimistic. In his "rose" period, he used happy pink pigments and joyful oranges. He started painting circus performers in their checkered patterned clothing. These happy paintings sold well.

| Vocabulary Review 1 |

1. (C) 2. (B) 3. (A)
 4. (D) 5. (A) 6. (C)
 7. (D) 8. (C)
 9. (A) 10. (C) 11. (C)
 12. (A) 13. (D) 14. (C)
 15. (B)
 16. defend 17. parasite 18. canopy
 19. merge 20. encase

21. O 22. O 23. O
 24. S 25. S

| Mini Test 1 |

01 Biology

1. (A) 2. (B) 3. (B)
 4. (C) 5. (C)

02 History

1. (A) 2. (B) 3. (C)
 4. (D) 5. (B)

03 Service Encounter

1. (D) 2. (B) 3. (D)
 4. (A) 5. (A)

Chapter 3 Function Questions

01 Biology

Fungi		
Types	Role	Example
Mushrooms and mold	Used as important medicines	Penicillin
	Used for food products	Bread, soda, soy sauce

1. (C) 2. (D) 3. (C)

Summary: The biology teacher is discussing types of fungi. Fungi are living organisms that have many uses. The professor says that mold growing on stale food like old fruit and bread can sometimes save lives. Some, like penicillin, fight infections. Other types of fungi are used to make breads, candy, or soda by producing a special kind of acid. Fungi also give soy sauce its tasty flavor. So while they may often seem disgusting, they are really quite useful.

02 Astronomy

The Process of Atmospheric Distortion			
Step 1	Step 2	Step 3	Step 4
Light rays from stars enter Earth's atmosphere	Light rays hit air pockets	Air pockets bend light rays in different directions	Light rays strike the eye at different angles, making star look like it's twinkling

1. (B) 2. (C) 3. (A)

Summary: The professor explains that when stars twinkle, it is an illusion called atmospheric distortion. When stars give off rays of light, the rays travel into the Earth's atmosphere. The atmosphere is not one big uniform blanket of molecules. It is made up of air currents called "pockets" that move at different speeds. When starlight enters the atmosphere and hits these pockets, the light bends in random directions. Then when it enters our eyes, it appears as if the stars are twinkling.

03 Office Visit

Hard to Understand Professor's Lectures		
Problem	Solution	Reason for the Solution
Student is having trouble understanding lectures	Go to the professor's website	Student will be able to review the key vocabulary for the lecture ahead of time

1. (B) 2. (B) 3. (B)

Summary: Anja wants help from her English professor. He asks her to proceed, so she explains that she struggles to understand his English classes. This is because English is her third language. The professor understands Anja's dilemma but says he can't alter his lectures just for her. He suggests that she check the class website before lectures. The professor posts lecture notes there which Anja can use to familiarize herself with class vocabulary.

04 Service Encounter

Problems Registering for a Class			
Issue	Solution	Concern	Refutation
Student can't register for business course	Register later after business students register	Class will fill up	Probably not. It's not very popular

1. (A) 2. (D) 3. (C)

Summary: A student tells the counselor that he tried to register online for a course called "Marketing Strategies." The course is currently restricted for freshmen. Only sophomores and upper class business school students can register for this course. A freshman who has not been admitted to the business school has to wait to register. First, the older students must sign up for the classes they need. This ensures that business students can take the courses they need.

05 Fine Arts

Pop Art vs. Dadaism		
Pop Art	Both	Dadaism
Celebrates popular society	Rejects traditional high art	Criticizes popular culture
Playful	Uses everyday objects	Somber

1. (A) 2. (C) 3. (A)

Summary: The professor is talking about Dadaism and Pop Art. She says that both movements developed in opposition to "high art." Both rejected high art concerns like beauty and technique. The two movements were also different in many ways. Dadaists wanted to show the excesses and wastefulness of society. Their art was often somber whereas Pop Art was more playful. Pop artists embraced pop culture and its products.

06 Biology

Single-Trait Breeding	
Advantages	Disadvantages
Convenient	Produces unwanted traits
Happens quickly	Can cause brain damage

1. (A) 2. (A) 3. (D)

Summary: In order to increase desirable traits in animals, breeders carefully choose which animals to mate. An example would be to breed chickens with big muscles. This technique is called single-trait breeding. This process is so quick that in one year they can breed two generations of chickens. There are also dangers to this breeding style. For example, fat chickens will have deformed legs because they are so heavy. It can also cause psychological damage to animals.

07 Office Visit

Expensive Software	
Problem	Solution
Student can't afford required software for class	Buy it at the bookstore, which offers it to students for half price

1. (A) 2. (A) 3. (C)

Summary: A student wants to take a computer graphics course. She is worried because the software she needs to install on her computer is expensive. The professor tells her this software is required so that students can generate graphics on their computers. Without access to the software, the class will not be of much use. The professor says the student can purchase the software for half price at the university bookstore.

08 Service Encounter

How to Get Funds to Attend a Conference	
Problem	Solution
Student wants to attend science conference, but it's too expensive	Science department will contribute \$100 to cover expenses
	Apply to Student Senate for sponsorship

1. (D) 2. (A) 3. (C)

Summary: A student wants to attend a conference in Houston but is worried about money. He wants to know how to raise the money to go. The woman tells him that the science department contributes \$100 to every student who goes to a conference. She says he can also apply to the Student Senate. They usually sponsor academic projects or trips and they have a large budget.

09 Economics

Trade Associations	
Advantage	Disadvantage
Allow businesses to control industry	Can give some businesses an unfair advantage over others
Give businesses more power to influence public policy	Can't punish businesses that behave immorally

1. (B) 2. (B) 3. (A)

Summary: The professor is talking about trade associations. They form when businesses work together and pool resources. By doing this, they have more influence. Huge corporations have power to act alone, but small businesses need help. Trade associations set standards for good conduct. They don't support businesses that act in immoral ways. The problem with these groups is that they sometimes stop new businesses from joining them. They also don't have much power to punish offenders.

10 Biology

Aggressive Mimicry	
Definition	Role
A strategy in which an organism fools its prey or host by acting like another harmless organism	Used by predators to attract or approach prey
	Used by parasites to enter host's body

1. (B) 2. (B) 3. (B)

Summary: The professor is discussing aggressive mimicry which is when a predator acts harmless to get near its prey. Then the organism it is hunting doesn't get scared or run away. Examples of this are turtles whose tongues look like worms and help them catch fish. Sometimes parasites look edible because they want to get eaten so that they can live off of their host. Examples are worms that look like small crustaceans. They get eaten by large fish and live off of them.

Chapter 4 Stance Questions

01 History

How Over-Plowing Caused the Dust Bowl		
Cause	Immediate Effect	Further Effect (economic)
Farmers plowed much of the grasslands during the Depression	There was nothing left to hold the soil down when the drought and high winds hit	Great Depression became more serious

1. (A) 2. (A) 3. (B)

Summary: The professor is discussing the causes of the Dust Bowl, a period of dust storms that destroyed many crops during the Great Depression of the 1930s. The professor explains that the crop failure was the result of farmers plowing the Great Plains. By doing an excessive amount of this, grasslands were left exposed. Farmers could not always afford to seed them. Without grass, there was nothing to anchor the soil. When disastrous droughts came, winds blew it away.

02 Biology

GMOs	
Advantage	Disadvantage
Could end starvation	Could lessen lifespan of ladybugs
Could help end widespread poverty	Easy to contaminate other crops

1. (B) 2. (A) 3. (D)

Summary: The biology professor is discussing Genetically Modified Organisms, special types of plants like cotton or corn. They have been modified in labs to grow better. This was done to help countries that struggle with starvation and poverty. The professor understands the plight of the poor. She is also worried about GMOs' long-term effects. She uses the example of ladybugs that ate aphids that fed off these plants. Their lifespan was reduced by half. GMOs also contaminate natural crops.

03 Office Visit

Applying for an Internship	
Problem	Solution
Student didn't meet a requirement for an internship	Professor will meet with the internship director and give the student a personal recommendation

1. (B) 2. (A) 3. (D)

Summary: Jill wants to take an English internship her university offers. In order to qualify for it, she needs to have taken a special English course. Her professor is not the director of the program, but Jill thinks he can help her. She hopes the university will make an exception for her. This is because her English course is very similar to the required course. Her professor agrees to give his recommendation by visiting Mr. Peterson personally.

04 Service Encounter

Noisy Roommate	
Problem	Solution
A student has a roommate who likes to party; student can't study and sleep	Resident advisor could speak to her
	Student could talk to the roommate first

1. (C) 2. (C) 3. (B)

Summary: A student wants some advice from her Resident Advisor. She lives in a dormitory and has problems with her noisy roommate, Susan. The advisor says that if Susan keeps violating the university's noise ordinance, she will be fined \$30. The advisor suggests that the girl first speak to Susan and explain things. He says Susan may not know that she is bugging the girl. He wants them to talk before he intervenes.

05 Biology

Darwinian Evolution vs. Punctuated Equilibrium		
Darwinian Evolution	Both	Punctuated Equilibrium
Evolution happens over long periods of time	Evidence for both appears in fossil records	Evolution occurs in rapid spurts

1. (D) 2. (B) 3. (A)

Summary: The teacher is discussing two different theories of evolution. One of these is Darwin's idea. His theory states that adaptations happen slowly. He believed change took a long time. Another theory says changes happen quickly. This theory states that gradual evolution does not happen. The professor says that Darwin's theory is flawed but not wrong. She says fossil records show that changes usually happen slowly.

06 Astronomy

Life on Mars	
Support	Criticism
Tiny grooves on a rock from Mars appeared to be bacteria fossils	Grooves are much smaller than any bacteria fossils found on Earth
Calcium carbonate was found on the rock	Calcium carbonate is commonly found on meteorites
	It probably did not come from natural organisms

1. (B) 2. (A) 3. (D)

Summary: The professor is talking about the 1996 discovery of a meteorite in Antarctica. This space rock was ejected from the planet Mars about 10,000 years ago. Scientists found calcium carbonate in cracks on the rock. This is often made by tiny living creatures called microorganisms. The scientists got excited and looked at the rock through a powerful microscope. They found tiny grooves in the rock's cracks. They thought this showed there was life on Mars, but they were wrong.

07 Office Visit

Doing Badly in a Course			
Issue	Solution	Concern	Refutation
Student needs a B in Psychology to get into the program	He can get points by volunteering for experiments	Student thinks this could be harmful	Professor tells him that all experiments are pre-approved

1. (A) 2. (A) 3. (C)

Summary: Jake is a psychology student who needs to raise his grade average. He's been having trouble grasping all the concepts and did badly on two tests. The professor tells him he can earn additional points which will raise his grade. He can participate in psychology experiments run by the graduate students. Jake is afraid to volunteer, but the professor assures him it is completely safe.

08 Service Encounter

Skipping an Introductory Course	
Problem	Solution
Student cannot be in a harder class because she didn't score high enough on the placement exam	Student offers to take the placement exam again
	The CLEP could place her out of the class and give her credit for it

1. (A) 2. (D) 3. (B)

Summary: A student enquires why she must do an introductory math course. She thinks there has been a mistake with her placement results. She wants the department head to waive her out of the course. The head asks for her college entrance exam score and discovers she didn't do well enough. He doesn't advise her to retake the test. Instead, he suggests she takes the College Level Examination Program test and receive credit.

09 History

Gilpin's View vs. Powell's View of the West	
Gilpin's View	Powell's View
Lots of water	Water was rare
Good for agriculture	Agriculture worthless without water

1. (C) 2. (B) 3. (A)

Summary: The history professor is telling his class about two American explorers. The first, William Gilpin, had a faulty view of the American West. He described it as a paradise and said it was ideal for human settlement. Gilpin said this area would be good for highly successful agriculture. He said there was a lot of water. The professor says people depended on Gilpin's expertise but what he said was wrong. John Wesley Powell's views were right on target.

10 Psychology

Theory of Reinforcement	
Positive Reinforcement	Refutation
People and animals learn when they get rewards for actions performed	Doesn't take free will into consideration; people and animals can choose not to do something
Negative Reinforcement	
People and animals learn when unpleasant objects are taken away	

1. (B) 2. (D) 3. (C)

Summary: The class is discussing B.F. Skinner's theory of behaviorism. This is a theory about how animals and people learn things. It suggests that they learn things based on what they receive. If they receive something nice, they do the act again. The presentation of the object is considered positive. The object should reinforce their action. Their behavior can thus be changed or controlled. Skinner believed that you could condition animals and people like this. The class thinks Skinner underestimated people and animals.

| Vocabulary Review 2 |

- | | | |
|------------------|-------------|----------------|
| 1. (B) | 2. (A) | 3. (C) |
| 4. (D) | 5. (A) | 6. (B) |
| 7. (A) | 8. (A) | |
| 9. (D) | 10. (A) | 11. (C) |
| 12. (B) | 13. (C) | 14. (A) |
| 15. (D) | | |
| 16. disgusting | 17. mold | 18. contribute |
| 19. contaminates | 20. acid | |
| 21. abide | 22. sponsor | 23. reality |
| 24. desirable | 25. fade | |

| Mini Test 2 |

01 Biology

1. (B) 2. (B) 3. (A)
 4. (D) 5. (D) 6. (B)

02 Geology

1. (B) 2. (C) 3. (B)
4. (A) 5. (A) 6. (C)

03 Office Visit

1. (B) 2. (D) 3. (B)
4. (A) 5. (C) 6. (A)

Chapter 5 Organization Questions

01 Geology

Ice Weathering			
Step 1	Step 2	Step 3	Step 4
Water gets into the crack of a rock	Water freezes and expands	Ice acts as a wedge to expand the crack	Ice thaws, leaving a bigger crack

1. (C) 2. (C) 3. (A)

Summary: The professor explains that ice weathering can break down rocks. It needs two particular preconditions to do this: water and cold temperatures. Both of these preconditions are not found in the tropics. When water flows into cracks in rocks, it first freezes and then expands. Its volume increases by nine percent, letting the ice act like a wedge and putting pressure on the crack. This expands the crack, so after the ice melts, there is a wider crack left in the rock.

02 Agriculture

Slash-and-Burn Farming	
Definition	Advantage
Farmers cut down and burn areas of a forest to create fields; later the forest can grow back	Affordable way for low-income families to get food
	Preserves the ecosystem of the forest

1. (C) 2. (D) 3. (C)

Summary: The professor explains that farmers use slash-and-burn farming to clear forests. They cut down and burn trees and plants to fertilize the soil and then crops are planted. After the harvest, the farmers abandon the fields and the forest grows back. This type of farming is firstly an affordable way for poor families to get food. Secondly,

people can help preserve their ecosystems by using this method. It also makes sure that no one area is farmed too much.

03 Biology

Aspartame's Safety	
Theory	Support
Aspartame can cause cancer	Rats that ate more aspartame were more likely to develop cancer

1. (D) 2. (B) 3. (C)

Summary: The professor states that many food producers use sugar substitutes in their products. These are also found in diet sodas and snacks. An example is aspartame which some propose is unsafe. These critics think the long-term consumption of aspartame may cause cancer. An experiment done on rats revealed this. Those who had more aspartame were more likely to get sick. Many other experiments show different results, but recent studies do suggest there is a link.

04 Meteorology

Fulgurites	
Definition	Role
Pieces of glass created when lightning strikes sand	Scientists study fulgurites to learn their age
	Scientists study fulgurites to learn about past climate conditions

1. (B) 2. (A) 3. (C)

Summary: This lecture is on fulgurites which form when lightning strikes some sand. Though lightning seems temporary, it leaves evidence. When it strikes, the intense heat melts sand, turning it into glass. Scientists find this glass interesting because it carries information about past climates. Scientists look at gas bubbles inside fulgurites to learn about this. When fulgurites are heated they glow, and the more defects they have, the brighter they are. This way the scientists know how old fulgurites are.

05 Biology

Importing the Mongoose	
Cause	Effect
People imported mongoose to Hawaii and Jamaica, believing it would eat rats	Mongoose did not reduce the rat population
	It hunted and threatened native species

1. (B) 2. (A) 3. (D)

Summary: The professor says introducing species not native to a place can be risky. Animals and plants that are imported often have an unexpected effect. The professor gives the example of a mongoose brought to Jamaica and Hawaii. This was done to reduce rat numbers. People hoped the mongoose population would eat all the rats. They didn't just eat rats. As opportunistic hunters, they ate many small animals they found. They decimated many of the natural species like the Hawaiian goose.

06 Biology

Brain Chemistry and Depression	
Cause	Effect
Low serotonin in brain	Depression: feel sadness, low energy, bad mood
An increase of serotonin in brain	Recover from depression, feel better again

1. (C) 2. (D) 3. (A)

Summary: The professor says scientists now better understand the link between brain chemistry and mood. She says a brain chemical called serotonin can regulate how we feel. Serotonin is like a thermostat that affects feelings. When levels are low, people feel depressed. They become sad and lethargic and often get no pleasure from life. By getting exercise, changing their diet, or taking medicine, people can get better.

07 Fine Arts

Stieglitz's Photography: Early and Late		
Early Photography	Both	Late photography
Imitated paintings	Photography as fine art	No longer imitated painting
Natural subjects		Focused on representing everyday life

1. (B) 2. (A) 3. (D)

Summary: The lecture is on the great American photographer, Alfred Stieglitz. His main goal was to elevate the status of photography. Before his time, photography was seen as less expressive than other visual arts. Stieglitz aimed to imitate the style and composition of painting. He did so by carefully manipulating his prints. After the First World War, his style changed. He now wanted to show the chaos and motion of everyday life.

08 Biology

Meteors and Mass Extinctions	
Theory	Support
A meteor caused a mass extinction 250 million years ago	Remains of a huge 250 million year old meteor have been found in Antarctica

1. (B) 2. (A) 3. (D)

Summary: The professor explains that dinosaurs disappeared very suddenly. He says a similar mass extinction occurred before dinosaurs lived. Most life on Earth was wiped out. Researchers think a meteor hit the Earth, causing climate change. This catastrophic event is what killed early life forms. They know this because they found metal particles in Antarctica. These tell us that a meteor fell. Another meteor killed dinosaurs. We have life on Earth today because new forms emerge when old ones die out.

09 Astronomy

Why Pluto is No Longer a Planet		
Topic	Classification	Explanation
Why Pluto is no longer a planet	must orbit the sun	Pluto orbits the sun
	must have enough mass to be round	Pluto is round
	must have cleared its orbit of other objects	Pluto does not have clear orbit

1. (D) 2. (B) 3. (D)

Summary: The professor is discussing why Pluto is not really a planet. There is now a stricter definition of what it takes to be a planet. There are three things a space object must do to be called a planet. Firstly, it must orbit the sun and secondly, it must have enough mass for a round shape. The third thing is that the object's orbit must be unobstructed. Pluto fails because it has an erratic orbit which sometimes overlaps with Neptune's.

10 History

Chariots in Egyptian Warfare	
Definition	Role
Light two-wheeled vehicles	Made Egyptian armies quicker and more efficient
	Used to defend armies — chariots went into battle first
	Caused Egyptian soldiers to be better trained

1. (D) 2. (A) 3. (A)

Summary: The professor says a two-wheeled vehicle called a chariot transformed ancient Egypt. People called the Hyksos used these to conquer Egypt in 1700 B.C.E. The Egyptians fought back and gained control of their country again. Then they built lighter, faster vehicles like this, which changed their warfare style. The Egyptian army now made war with people outside their lands because they could travel farther. Chariots also gave them a tactical advantage. One soldier drove while another shot arrows.

	Causes of Tsunamis	Effects of Tsunamis
Series of fast-moving waves		✓
Underwater earthquake	✓	
Meteor Impact	✓	

Summary: The professor is telling her class about tsunamis, which are giant waves. They form when massive amounts of water are displaced. There are two things that can trigger this. One is a meteor impact, which is when a space rock falls into the ocean, making big waves. The other trigger is when earthquakes shove part of the Earth's crust upwards. This force can also create tsunamis, and the result is often large-scale destruction.

Chapter 6 Content Questions

01 Fine Arts

Greek Theaters vs. Elizabethan Theaters		
Greek Theaters	Both	Elizabethan Theaters
Built on hills	Seated at least 15,000 people	Wooden constructions
Contained orchestras	Open-air stages	Contained "pits"

	Greek Theaters	Elizabethan Theaters	Both
Built on hills	✓		
Open-air stages			✓
Contained "pits"		✓	
Had areas for singers and dancers	✓		

Summary: This lecture is on Greek and Elizabethan theaters. Greek theaters were built outside on hillsides and had stone benches for the audience. The stages of these theaters were circular in shape. Dancers would perform, and singers would narrate stories here. They were immense in size, seating about 15,000 people. Elizabethan theaters were made of wood and their stages were roofless. They were the same shape as Greek theaters and also seated 15,000 people, but they had "pits."

02 Geology

Creation of Tsunamis	
Trigger	Effects of Tsunami
Earthquake	Waves rapidly travel outward
Meteor Impact	Waves strike coastlines

03 Office Visit

Falling Asleep in Class	
Problem	Solution
Student keeps falling asleep in class	Change to an afternoon class

	Reasons Given	Reasons Not Given
He works at night.	✓	
He finds the class is boring.		✓
He stays up late studying.		✓
He does not sleep enough.	✓	

Summary: John's professor is concerned because he often falls asleep in class. John explains that this is his favorite class, but his delivery job is the problem. He works late hours delivering pizzas and doesn't sleep enough. The professor suggests John sign up for the afternoon section. Since the class is in the same location and covers the same work, John can switch classes.

04 Service Encounter

Getting Money for School	
Problem	Solution
Student needs help paying for books and tuition	Get a part-time job
	Apply for private scholarships
	Get an internship

	Suggestions Given	Suggestions Not Given
Get a work visa		✓
Find a part-time job	✓	
Apply for government scholarships		✓
Research internships	✓	

Summary: Juan is an international student. He is not eligible for government scholarships or financial aid like other students. He still has a problem paying for his tuition and books because these are very expensive. The advisor asks Juan if his student visa allows him to work. Juan says it does so she suggests he get a part-time job or he apply, for private funding.

05 Geology

Calderas		
Topic	Classification	Cause
Volcanic calderas	Explosive	Eruption
	Non-explosive	Collapse

	Mt. St. Helens	Kilauea	Both
Caldera can be seen today			✓
Magma chambers collapsed		✓	
Caldera created by explosion	✓		
Remains an active volcano			✓

Summary: The professor is explaining what volcanic calderas are. He tells students there are two types of this geological feature. The typical shape of a volcano is conical. It also has a big crater at the top of it which is the caldera. This type is formed when a volcano explodes and leaves a big hole. The other type of caldera is formed when a magma chamber empties and collapses. There is no violent explosion in this case.

06 Physics

Geothermal Energy	
Advantage	Disadvantage
Costs very little to produce energy	Can only use in a few places
Creates no pollution	Can run out unpredictably

	Advantages	Disadvantages
Available locations		✓
Cost	✓	
Pollution level	✓	
Reliability		✓

Summary: The professor is telling his students about geothermal energy. He says this is a good sustainable energy source which allows us to harness the Earth's heat. It involves digging holes in the Earth to collect steam. It has big advantages because it costs very little once facilities have been built. Another advantage is that it produces no pollution. The bad thing is that steam is only found in certain places and is very unpredictable.

07 Office Visit

Bad Note-Taking Skills	
Problem	Solution
Student is not taking good notes in class	Copy outline before class starts
	Fill in subtopics
	Use abbreviations and symbols

	Suggestions Given	Suggestions Not Given
Sit at the front of the class		✓
Copy the professor's outline	✓	
Write every word said		✓
Use abbreviations	✓	

Summary: A student is missing important information in his notes. His professor thinks his notes are incomplete and his style needs improvement. She suggests that he copy down her outline so he can keep up with main ideas. She says this can also help him fill in the subtopics. She says understanding a lecture's organization is important. She also wants him to try and abbreviate words and use symbols so his hand doesn't cramp.

08 Service Encounter

Difficulty Registering for Classes	
Problem	Solution
Student cannot register from home using the university website	Download a different web browser

	Should Do	Doesn't Need to Do
Use a computer on campus		✓
Download a different browser	✓	
Register in person		✓
Use her login name and password	✓	

Summary: A student wants to register using the university website but is having trouble. When she types in her login name and her password the server remains unavailable. The man asks her what web browser she is using on her home computer. He explains that this software is not compatible with the university's software. He tells her about a free program she can download to register from home.

09 History

Norman Conquest and English Culture	
Cause	Effect
Duke William of Normandy conquered England in 1066	Anglo-Saxon nobility lost land and power
	Anglo-Saxon Church leaders were replaced
	English language adopted French and Latin words

	Results	Not Results
English borrowed German words		✓
Church leadership changed	✓	
England got a new king	✓	
Anglo-Saxons moved to France		✓

Summary: The class is discussing the Norman conquest of England by William the Conqueror. This king assembled an army in 1066 and invaded England. The people in England were called Anglo-Saxons, and their ancestors were German. William took all the land and power from the Anglo-Saxon nobility. He also removed their leaders from powerful positions in the Church. He was very thorough because he wanted his conquest to last a long time. He made his monarchy the most powerful in Europe.

10 Biology

Origin of Birds	
Theory	Support
Birds are direct descendants of coelurosaurian dinosaurs	Both have hollow bones
	Both have feathers and scales
	Both have similar skeletal structures

	Mentions as Evidence	Doesn't Mention as Evidence
Dinosaurs laid eggs like birds		✓
Some dinosaurs had hollow bones	✓	
Some dinosaurs could fly		✓
Feathers and scales grow from similar tissue	✓	

Summary: The teacher discusses a controversial theory about the origin of birds. This popular theory claims birds are direct descendants of dinosaurs. Bird bones are hollow inside just like those of certain dinosaurs. She says that these dinosaurs also had feathers like birds. She tells the class that birds also have scales on their feet, making them like dinosaurs. These grow from the same type of tissue that produces feathers. The third similar thing is their structural skeletal features.

Chapter 7 Inference Questions

01 Sociology

Divorce Among Blue Tits	
Cause	Effect
A bigger female takes over the nest	Smaller female is forced to divorce her mate
	Invading female becomes new female of the nest

1. (A) 2. (C) 3. (B)

Summary: The professor explains that divorce is not just a human phenomenon. It occurs among birds such as blue tits too. These birds are socially monogamous but have a 50% divorce rate. After divorce, the male stays, and the female leaves the nest. Blue tits divorce because of female competition, not because females leave their mates for another male. Bigger females chase weaker females from the territory. In this way, the stronger female breaks up the initial mating pair.

02 Linguistics

Women's Use of Intonation in Statements	
Advantage	Disadvantage
Appears cooperative to a female listener	Appears to lack confidence to a male listener

1. (C) 2. (B) 3. (D)

Summary: The professor is discussing how women use rising intonation which makes them sound like they're asking questions. They don't sound like they're stating facts. In a business environment, this is good and bad. To females, conversations are cooperative activities. Women feel that by phrasing statements as questions, they give listeners a chance to reply. Males think rising intonation shows weakness. They think women who do this seem unsure of themselves. Men think it is good to sound assertive when speaking.

03 Office Visit

Research Paper Assignment	
Problem	Solution
Student is worried about her first college research paper assignment	Professor offers to look over her draft to help her feel less nervous

1. (A) 2. (D) 3. (C)

Summary: The student talks to the professor about her research paper. She says she is nervous about it because it is her first paper. He says this attitude is common among freshmen and that writing like a senior takes time. He says she could write a draft before the deadline, and he will provide feedback on it. She agrees to send a draft to the email address on the syllabus.

04 Service Encounter

Problems with Meal Plans	
Problem	Solution
Student is worried about purchasing a meal plan since she is allergic to dairy products	Employee reassures her that she can get non-dairy meals on campus

1. (B) 2. (B) 3. (D)

Summary: A freshman must buy a meal plan because this is university policy. The student is allergic to dairy products but does not want to buy food anywhere else. She is told that dining services do offer non-dairy meals. They offer soy

milk and soy-based products. They also have special meal days for international students. These feature foods from different countries. That way, all students get a taste of home.

05 Economics

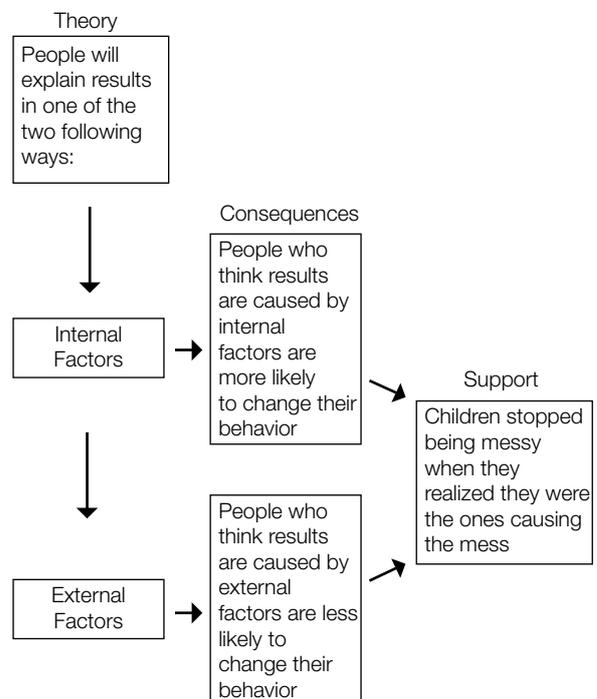
Management: Classical View vs. Acceptance View		
Classical View	Both	Acceptance View
Top down	Deal with legal authority	Bottom up
Employees obligated to obey		Employees choose to obey

1. (B) 2. (A) 3. (C)

Summary: The professor discusses two ideas about how to be a manager. These ideas have to do with legal authority. The classical view of management is top down. Managers give orders and believe workers have an obligation to follow them. They think workers should obey them. They think they deserve obedience. Another view sees authority as being in the hands of workers. This is called the acceptance view. A manager using this idea thinks he should gain the obedience of workers.

06 Psychology

The Attribution Theory and Behavior Change



1. (C) 2. (D) 3. (B)

Summary: The Attribution Theory is how people explain results. Results can be caused by either external or internal factors. People attribute success or failure to these factors. If a person thinks something happens because of internal things, they change their behavior. When people think something happens due to externals, the reverse is true. In an experiment teachers gave children candy. The children threw the wrappers on the floor until they learned to be neat. Then they threw them in the trash can.

07 Office Visit

Trouble with a Math Test	
Problem	Solution
Student flunked his test and is worried about his grade	Professor might throw out bad test if student does well on all future tests

1. (D) 2. (D) 3. (B)

Summary: Trey is worried he may flunk math. He asks his professor if he can do some extra credit to bring his test grade up. His history professor let him do this last semester. Trey explains that he was sick when he took the math test and has a note from the nurse to prove it. The professor says she will think about throwing out his grade for the test if he gets better than a B-average in remaining tests.

08 Service Encounter

A Leaky Roof	
Problem	Solution
A student's clothes were damaged by a leak in her dorm roof	Housing department will compensate the student and repair the leaky roof

1. (B) 2. (C) 3. (B)

Summary: A student wants to file a complaint with the housing department because of a leak in her ceiling. The leak caused filthy water to come into her closet. Many of her clothes were ruined and they also stink. She complains that she lost half of her wardrobe. The man apologizes and says it's because of unexpectedly heavy rain. He tells her to fill out a form so that a check can be written to compensate her for her loss.

09 History

The Decline of the Easter Island Civilization	
Cause	Effect
Deforestation of Easter Island	Without trees for boats, fishing declined
	Without fish, people used up other natural resources
	Political leaders failed to solve problems and order broke down

1. (B) 2. (A) 3. (C)

Summary: The professor is discussing why the great civilization of Easter Island ended. He says a new theory suggests the principal cause was deforestation. Once, the island was covered with abundant forests and palm trees. Islanders used these trees to build houses and boats. The latter were used for fishing which formed the core of the island's economy. In other words, these forests were essential to the islanders' survival. When the trees were gone, they could no longer survive.

10 Environmental Science

Global Warming	
Theory	Criticism
Earth's temperature is getting hotter because of human activity	Temperature of an important layer of the atmosphere is not getting hotter
	Natural causes may be responsible for any changes in the Earth's temperature

1. (B) 2. (C) 3. (B)

Summary: The professor is discussing global warming. This theory states that burning fossil fuels produces gases. These gases heat up the Earth. Some critics argue against this theory because for many years, a lower layer of the Earth's atmosphere has not heated up. It is called the troposphere. Critics contend that land gets hot in urban areas because trees are cut down. They also say the Earth's temperature always changes in cycles.

| Vocabulary Review 3 |

1. (A) 2. (D) 3. (C)
 4. (A) 5. (D) 6. (A)
 7. (A) 8. (A)
 9. (D) 10. (D) 11. (C)
 12. (D) 13. (A) 14. (B)
 15. (C)

16. crust 17. crater 18. erupt
 19. catastrophic 20. decimate
 21. orchestrate 22. relaxed 23. increase
 24. rural 25. dirty

| Mini Test 3 |

01 Psychology

1. (C) 2. (B)
 3.

	YES	NO
Predict success in school	✓	
Reflect prior knowledge	✓	
Measure creativity		✓
Select good leaders		✓

4. (A) 5. (C)

02 Chemistry

1. (C) 2. (B)
 3.

Friction causes hydrogen atoms to fuse into helium	2
Sun totally runs out of hydrogen	4
Gas and dust collapse inside stellar nursery	1
Sun expands to 30 times its current size	3

4. (B) 5. (D)

03 Biology

1. (C) 2. (B)
 3.

	FACT	THEORY
Giganto co-existed with early humans.	✓	
Early humans hunted Giganto.		✓
Giganto ate bamboo.		✓
Giganto had pitted teeth.	✓	

4. (A) 5. (C)

Practice Test

01 Psychology

1. (A) 2. (B) 3. (D)
 4. (A) 5. (C) 6. (D)

02 Genetics

7. (A) 8. (B) 9. (A)
 10. (B) 11. (A) 12. (D)

03 Office Visit

13. (D) 14. (D) 15. (C)
 16. (D) 17. (B)

04 Environmental Science

18. (B) 19. (C) 20. (D)
 21. (D) 22. (B)
 23.

	Mentioned	Not Mentioned
Streambed destruction	✓	
Flooding	✓	
Sinkholes	✓	
Drought		✓

05 Psychology

24. (A) 25. (D) 26. (A)
 27. (B)
 28.

	Physiological Needs	Psychogenic Needs	Both
Acquired at birth	✓		
Individuals rank them differently		✓	
Found in all individuals			✓
Learned over lifetime		✓	

29. (D)

06 Service Encounter

30. (B) 31. (D) 32. (B)
33. (C)
34.

Task	Mentioned	Not Mentioned
Check the bookshelf in the library		√
Talk to the librarian	√	
Ask for a written confirmation	√	
Register in the computer lab		√