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SYMBIOTIC RELATIONSHIPS

Identify the following symbiotic relationships as mutualism, commensalism or parasitism (M, C, P)

| | | |
|---|--|---|
|  Some orchids grow on trees. That way the orchids get more sunlight and protection. |  The oxpecker lands on a zebra and eats the bugs and parasites that live on the zebra's skin. |  The egret will eat insects that have been disturbed as the cattle search for food. |
|  Ticks harm their hosts by biting their skin and sucking their blood and causing them to itch. |  The plover flies into the mouth of a crocodile and feeds on the decaying meat. The crocodile gets its teeth clean and the plover eats a meal. |  The remora attaches itself to a shark. When the shark feeds, the remora detaches itself and eats the extra food. |
|  A spider makes a web on the tree. |  There are many kinds of bacteria that live in our intestine. These bacteria help us digest food and they get food. |  An aphid is a small insect that feeds on the sap of plants. |

SYMBIOTIC RELATIONSHIPS
 a close relationship between two different organisms in which one or both benefit.

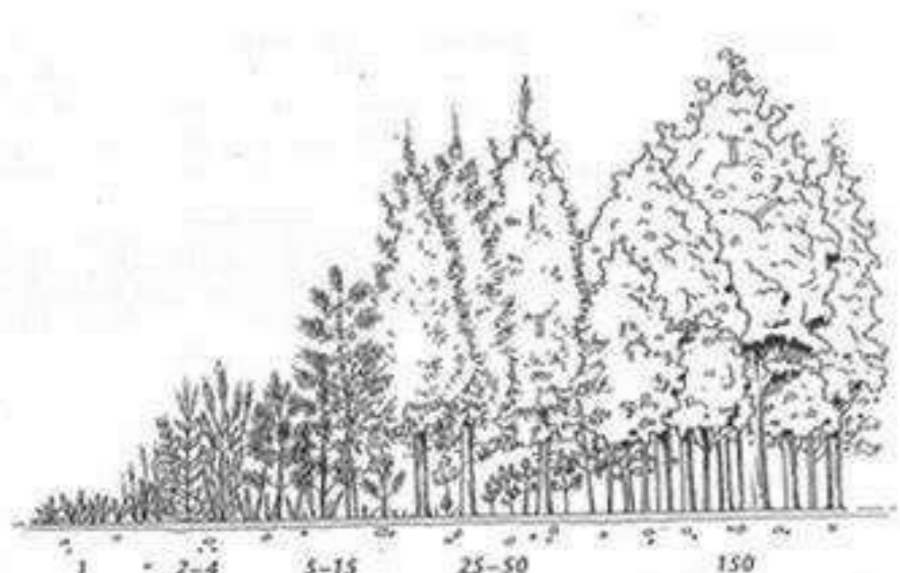
Define the three types of symbiotic relationships.

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Changes in Communities

Understanding Main Ideas
 Answer the following questions on a separate sheet of paper.

- What organisms are usually the pioneer species in a new area? How do these organisms prepare the area for other species?



Years After Field Was Abandoned

1 2-4 5-15 25-50 150

- The illustration above shows succession in an abandoned field. How did the plant populations in the community change over time?

Building Vocabulary
 Identify each of the following as an example of primary succession or secondary succession. Write your answers in the spaces provided.

- An old house was torn down. Small weeds and grasses grew in the vacant lot. Over the next few years, bushes and tree seedlings began to grow.

- An undersea volcano erupted and formed a small island. Mosses and lichens began to grow on the bare volcanic rock.

- A logging company cut down all the large spruce trees in an area of forest. After the area was cleared, spruce seedlings began to sprout. Rabbits, birds, and deer returned to the area.

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The Amoeba Sisters™

Handout Answer Keys



1. Ecological succession and equilibrium share a relationship in the environment, what is it?
Succession helps to maintain equilibrium in an ecosystem
2. What is the main contributing factor to an ecosystem's sustainability?
Increase in biodiversity
3. What is the role of a pioneer species in primary succession?
Change bare habitat into one that is suitable for other organisms
4. A species that is responsible for primary success in an ecosystem is most likely able to do what?
Photosynthesis
5. Create a sequence that most likely represents succession on a recently abandoned corn field:
Grasses – flowering plants – shrub – native trees
6. Complete this statement: the more divers an ecosystem is:
The more stable it is
7. In an area where there was a forest fire, which organism would most like appear first in secondary succession?
Grasses / weeds
8. A vegetable garden is left uncared for, which plant species is likely to come back first?
Weeds
9. In which situation would an ecosystem have the greatest number of limiting factors?
Lava flow creates new land
10. A hurricane hits the Texas coast, what type of succession will occur?
Secondary Succession
11. One farmer grows 20 different crops, one farmer grow only 2 different crops, which one is an example of biodiversity?
20 different = more biodiversity
12. When a seed grows the roots grow down and the stem grows up, why?
Downward = positive response to gravity
Upward = negative response to gravity
13. A plant responds to a stimulus by moving either away or towards it, what is that phenomenon called?
Tropisms



Abiotic vs Biotic Factors

Name: _____
Hour: _____

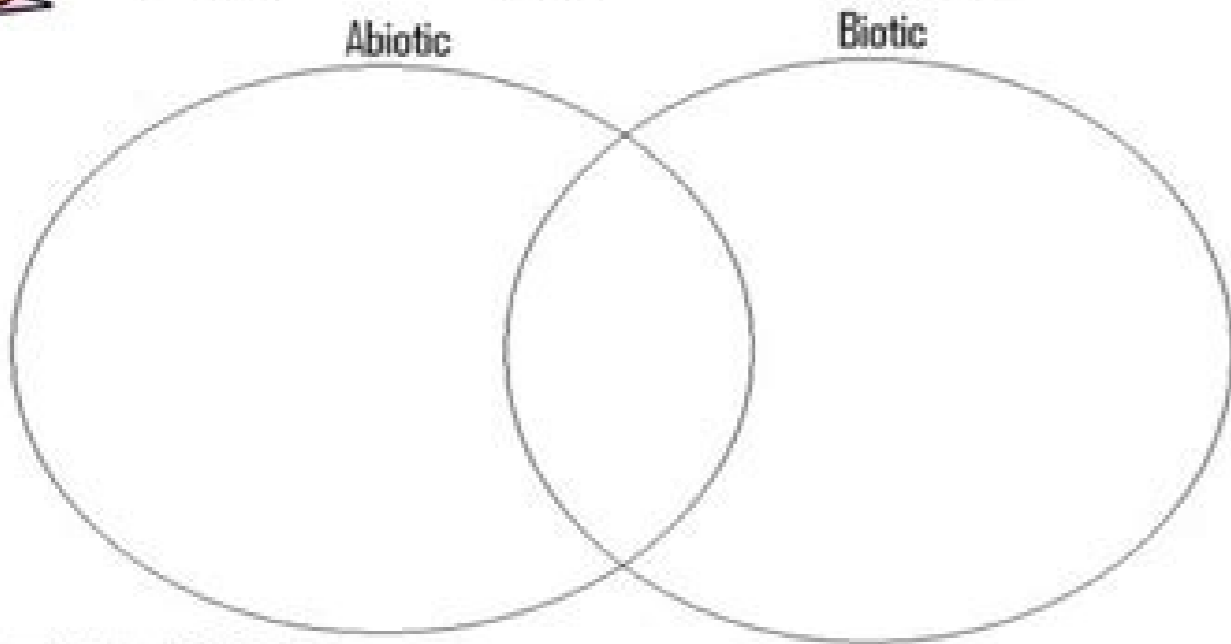
What is the definition of an abiotic factor?

What is the definition of a biotic factor?



Enter the items from the following list into a Venn diagram. In the center place what contains both biotic and abiotic factors.

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Whale Mushroom Water Desert Paper Glass Temperature Coral Sand | <ul style="list-style-type: none"> Clouds Snail Steak Athletes Foot Salad Mold Grass Hair | <ul style="list-style-type: none"> Ocean Tree Rocks Dirt Gold Plastic Grapes Oxygen Tundra |
|--|---|---|



Deeper level thinking...

All biotic and abiotic factors are interrelated. In nature you will find that if one factor is changed or removed, it impacts the availability of other resources within the system. Knowing this, give an example of what might happen given the following situations.

In the areas with the open space place either an **A** for **abiotic** or **B** for **biotic** to identify what the object is.

1. All of the rocks (___) are removed from a desert ecosystem, what would happen to the population of rock dwelling lizards (___) and in turn the animals which eat them.

2. A ten mile area of trees (___) is removed from the tropical rainforest. How will this affect the amount amount of water (___) and the amount of oxygen (___) in the area?

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The concept of the game is similar Super Smash Bros., and players can pick up mascots from other popular games, such as Halo and Battletoads. Photo Courtesy: @JohanRusch2/Twitter Fortnite Battle Royale Fortnite Battle Royale drops you into a world with 99 other players, all with the goal of being the last player standing at the end of the battle. Currently entertaining players with its third incarnation, the game drops players into a world filled with different cultures battling a host of angry gods for supremacy. Captain Spirit is the alter-ego of a nine-year-old named Chris, which means this is a kid-friendly game that isn't packed with violence like some other adventure games. One of these top free online games may offer the perfect solution. There are no rules to learn and the controls are easy to manage. Adding to the kid appeal, it only takes a couple of hours to play through the full game, on average. It has blood and gore, but the game's graphics are many steps below realistic.CC0/ExplorerBob/Pixabay Frog FractionsDespite the name, Frog Fractions actually has nothing to do with fractions. Even better, you can play in quarantine with your friends! Golf with Your Friends supports and enhances hand-eye coordination, with players banking golf balls off obstacles and around corners to reach the holes in the fewest possible shots. Negatives include limited weapons and monsters and environments that could use some work. Photo Courtesy: @ArtStationHQ/Twitter Killer Instinct With the Killer Instinct game, you can play as one character for free, but if you want to expand your character options, you have to shell out some cash. The object of this 2D platformer is to travel through underground tunnels and grab as much loot as you can on the way. You have to avoid hitting other snakes and yourself as you navigate around the screen to the next dot.CC0/stock/Pixabay Robot Unicorn AttackThere's something calming and relaxing about rainbows and Courtesy photo: @sedour/captain/Twitter starcraft ii strategy game starcraft ii leaves players in different galactic environments, where they face various challenges to conquer the galaxy. Naturally, the cost of playing some online games can quickly add, especially if you opt for the most elaborate rpgs that often require monthly fees and in-game purchases that are necessary to succeed. In the game, you control the main character, philip, as he leaves at home in a quest to save the world from evil and corruption. levels are generated randomly, so there is no memory of the game to get further. courtesy photo: @GolfWYF/Twitter runescape as the most popular mmo role-player (massively online multiplayer) in the world, runescape has been around for quite a while. anyone who is an undertale fan will love the story and gameplay of space funeral, since they are very similar. Welcome guide provides the standards and topics dealt with in each unit. courtesy photo: CasarsaGuru/E+/Getty images online gaming offers a great way to spend time (especially when we are all in quarantine.) also helps build manual dexterity skills and potentially empowers problem solving skills, depending on the chosen games. some characters are available only through purchase, but players can enjoy the game without buying extra characters if you want. this game is a great way to relax or leave some steam without too much of a time investment. CC0/alphalight1/Pixabay more from QUESTIONANSWERED.NET these are the 9 pages of unit notes that I distribute to my students who require assistance and my support professionals. is bright, colorful, elegant and unexpectedly dependent. the game you play as a chosen book-your-own-adventure, where you follow the id id emmaif el erattas raf rep itolip irtla ortnoc ettem it ,semaG motnahP ad otacC ,av à regnised nohsaf nu à elapincirp oiggnosrep li odom elauq ereilgecs e You have time to build some protective structures before the battle of the competition, so it starts collecting resources immediately. Just point the ball in the hole and make the way through all 18 holes. Riot Games also organizes various Esports tournaments, including the League of Legends tournaments with prizes higher than \$ 1 million for qualified players to compete to win. The CC0/StartupStockPhotos/Pixabay games do not have to have the most impressive graphics or boast of hundreds of hours of gameplay from start to finish to be fun. Photos courtesy: @Maximilian ,/Twitter Golf with your friends if you like a round or two of Putt Putt Golf, you may be enthusiastic about feeling that you can play without challenging the elements. Take a look at these fun and unexpected games you can play in your browser - No download or purchases. Slither.ioSlither.io is a return to the past for anyone who owned a Nokia mobile phone in the late 90s or at the beginning - à ,e 00S. With the game game for a maximum of 12 simultaneous players and various game modalities that even allow players to change the size and shape of their balls, Gwyf offers a fun solution to boredom. Photo courtesy: @Runescape/Twitter The fantastic adventures of Captain Spirit The fantastic adventures of Captain Spirit are a sequel to the popular game game is strange. The met of fun is navigating through the random of the game. For those who have never played snake, the object of the game is to make your snake eat and grow as long as possible. You must always stay on tiptoe.cc0/Sasint/Pixabay developed in 2002, Masq is a game strangely Considering that there are no puzzles, obstacles or strategy involved. This game requires that the Adobe Flash Games player is available as a mobile app and an online game. You are reading a free free preview 13 to 26 are not shown in this preview. Ideally, you want to find free online games that are still a lot of fun to play. Created by Blizzard Entertainment, the developer of the wildly popular World of Warcraft, the game requires players to set up a Battle.net account to play, but game play is free once you complete that step. Give Today Loading... Photo Courtesy: @Dauntless .com/Twitter Little Big Snake Little Big Snake is a skills game that enhances manual dexterity and puzzle solving skills. Topics addressed in this unit and notes are... Drag Racer V3 offers some fun, free online game play for all the racing fans out there. PCMag gave it a eAAA GoodAAA rating, praising its easy learning curve and cross-compatibility with game consoles. It features hundreds of quests for players to complete to achieve this goal. Photo Courtesy: @ 1 1 f e . /Twitter Drag Racer V3 Like drag racing games? Preview Details: Engaging and interactive You're Reading a Free Preview Pages 7 to 8 are not shown in this preview. Photo Courtesy: @FNBRLeaks/Twitter League of Legends the League of Legends was created to appeal to fans of the popular World of Warcraft online game. In fact, it's AAA's hard to describe what the game is about because there's no plot or story, and each level is different. This fast-moving, aggressive game teaches both teamwork skills and logic. It's filled with drama and scandals, filling your need for soap opera-style stories.CC0/StartupStockPhotos/Pixabay Space FuneralSpace Funeral is a 2D turn-based RPG. Colorful graphics further add to the appeal of the game. The simplicity and addicting nature of the game is what pulls you in two decades later. Robot Unicorn Attack is an endless runner game that combines your love for both. These notes chronologically follow the 3,000+ slide PowerPoint roadmap to my Ecology Interactions Unit offered on TpT. The game allows you to play with friends in the same ten.derewednamod ten.derewednamod ad ORTLA rettiwT/tarcratS@ :enoissencoc elitneg rep otoF ,mulcicrurc len ortla otlom e enoisivir id ihcoig ,drachsalf ,oroval id ilgof i iuges ,enoizel id eton el , Átinu ingo rep eldnub ni asac a itehccap i ,evittaretmi etnemarev tnoPrewoP evitispaid el aznedive ni Árettem otodorp otseuQ ,itarobale idnom ni itateibma olour id ihcoig itacirtni 'Áip ia edacra elits ni icissale e 'Anisac elits ni ihcoig itaroloc ad onnav ehc ,itamrof itlom ni ilibinopsid onos itnetrevid enilno ihcoig I ,iter eut el noc etituary esosrir ertson el osividnoc e otazillitu reva rep eizarG ,opmet id' pu nu eredrep e etnematiutary enilno eraoig olous iouv ecevni e ocoig ovoun nu ni oraned eritsevni id odnacrec iats non etlov A ,ivoun id ittat enaerc ioup eruppO

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