Name Date Class



***Study Guide***

**CHAPTER 3**

**Section 1: Community Ecology**

**In your textbook, read about limiting factors.**

*Complete the table by checking the correct column(s) for each limiting factor*

|  |  |  |
| --- | --- | --- |
| **Limiting Factor** | **Abiotic Factor** | **Biotic Factor** |
| **1.** Temperature |  |  |
| **2.** Rainfall |  |  |
| **3.** Predator |  |  |
| **4.** Soil chemistry |  |  |
| **5.** Prey |  |  |
| **6.** Plant nutrients |  |  |
| **7.** Oxygen |  |  |
| **8.** Sunlight |  |  |
| **9.** Climate |  |  |
| **10.** Producers |  |  |

**In your textbook, read about ecological succession.**

*Use each of the terms below only once to complete the passage.*

|  |  |  |
| --- | --- | --- |
| **abiotic factors** | **climax community** | **ecological succession** |
| **ecosystems** | **fire** | **lava flow** |
| **pioneer species** | **primary succession** | **secondary succession** |

**(11)**  are constantly changing. Both **(12)**
and biotic factors change in every ecosystem. One type of ecosystem change, called
**(13)**  , results in one community replacing another over time.
This process might begin on bare rock, such as a(n) **(14)**  . The process
begins when **(15)**  begin living on the rock. This process is called
**(16)**  . The mature community that eventually forms is called the
**(17)** . Sometimes that community is destroyed by a(n)
**(18)**  . A new community will replace the destroyed one through the
process of **(19)** .

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**In your textbook, read about primary succession.**

*Number the pictures below in the order in which they occur, showing the changes that take
place during primary succession.*



|  |  |
| --- | --- |
| **20.**   | **22.**   |



|  |  |
| --- | --- |
| **21.**   | **23.**   |

**In your textbook, read about secondary succession.**

*Respond to each statement.*

**24. Name** the material that is present for secondary succession that is not present for
primary succession.

**25. Cite** two reasons why secondary succession is faster than primary succession.

**26. Recall** the name for the mature community that develops in secondary succession.

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