**NOTES 5.2: Asexual Reproduction**

1. **Requires only** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**to reproduce!**
2. **All offspring are** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Advantages** | **Disadvantages** |
|  |  |

**What type of cells reproduce asexually?**

**What type of organisms reproduce asexually?**

**Types of Asexual Reproduction**

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| --- | --- | --- |
| **BINARY FISSION** | | |
| * Replication of \_\_\_\_\_\_\_\_ * Mitosis may occur * Cell divides into \_\_\_\_\_parts | Eg. \_\_\_\_\_\_\_\_\_\_\_\_\_,  some bacteria (streptococcus),  dinoflagellates \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

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| **BUDDING** | | |
| * Occurs in some \_\_\_\_\_\_\_\_\_ multicellular organisms * Areas of organism undergo \_\_\_\_\_\_\_\_\_\_\_\_ (repeated cell division) * A \_\_\_\_\_develops that may or may not detach and move somewhere else * The bud \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | e.g. |  |

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| **FRAGMENTATION** | | |
| * Organism \_\_\_\_\_\_\_\_\_\_\_ * Each piece \_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | e.g. |  |

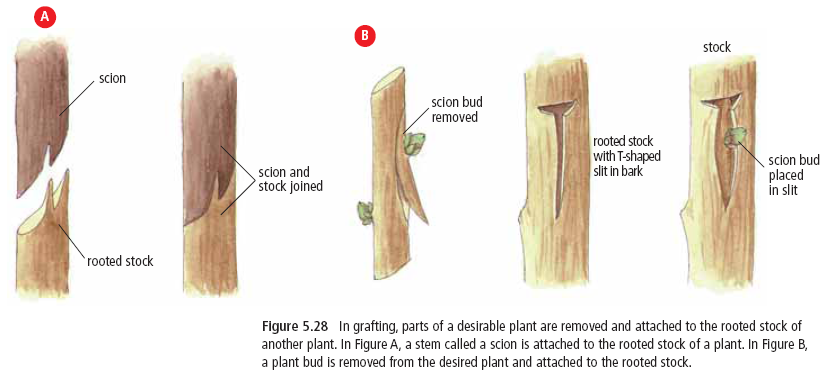
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| **SPORE FORMATION** | | |
| * Spores –\_\_\_\_\_\_\_\_\_\_\_\_ that can grow into a new individual by \_\_\_\_\_\_\_\_\_ * Move with \_\_\_\_\_\_\_\_\_\_or \_\_\_\_\_\_\_\_\_\_ and will grow where it lands if conditions are right * Can develop tough outer coating to survive for years in harsh conditions | e.g. |  |

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| **VEGETATIVE REPRODUCTION** | | |
| * Special cells in plant stems and roots \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to form structures that will become identical plants | e.g. | e.g. |

**Vegetative Reproduction and Agriculture**



**Cutting: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**Grafting: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Human-Assisted Cloning**

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| **Reproductive Cloning:** |
|  |
| **Therapeutic Cloning:** |

**Myths**

|  |  |
| --- | --- |
| **Reasons for Cloning** | **Reasons against Cloning** |
|  |  |

***DO THIS!***

* Pg 183 #1-14
* Key Questions!