

Name _____

Exploring the Reproductive Strategies of Non-Vascular Plants: A Fascinating Journey into the World of Bryophytes

Short Answer Key

1. Sexual reproduction in non-vascular plants involves the production of gametes (sperm and eggs) by the gametophyte generation, fertilization of the egg by sperm, development of a sporophyte, and production of spores through meiosis.
2. Gametangia are specialized reproductive structures that house gametes and facilitate fertilization in non-vascular plants.
3. Fragmentation contributes to the asexual reproduction of non-vascular plants by allowing detached parts of the plant to develop into new individuals under suitable conditions.
4. Gemmal cups are specialized structures found in liverworts that contain gemmae, which are capable of developing into new plants when dispersed.
5. Non-vascular plants regenerate after experiencing damage through the division and differentiation of certain cells within the remaining tissue, allowing the plant to recover and continue its growth.

