

Name: _____

Differences and Similarities between the life cycles of Mosses and Ferns

Place a ✓ in each column where the stated condition applies.

Mosses	Ferns	Condition	Similar	Different
		presence of flowers		
		reproduce by spores		
		undergo alternation of generations		
		sporophyte generation dominant		
		gametophyte generation dominant		
		eggs contained in archegonium		
		sperm contained in antheridium		
		water required for sperm to reach egg		
		spores found in sporangium on underside of leaf		
		spores found in capsule on top of long, stalked sporophyte		
		2n generation dominant		
		n generation dominant		

Watch the animation found at

<http://www.sumanasinc.com/webcontent/animations/content/moss.html>

and answer the following questions

Mosses:

- | | | | |
|-----|---|---|---|
| 1. | The part of the moss you commonly see is the sporophyte. | T | F |
| 2. | Gametophytes may be either male or female | T | F |
| 3. | Male gametophytes produce sperm by mitosis | T | F |
| 4. | Sperm are produced in structures called archegonia | T | F |
| 5. | Female gametophytes produce eggs in archegonia | T | F |
| 6. | Sperm cells are transported to eggs by insects | T | F |
| 7. | The first cell of the sporophyte generation is the zygote | T | F |
| 8. | The sporophyte depends on the gametophyte to survive | T | F |
| 9. | The capsule of the sporophyte is filled with eggs | T | F |
| 10. | Spores are produced by meiosis and are haploid | T | F |
| 11. | When a spore germinates it produced a protozoa | T | F |

Write corrections for any of the statements above you found to be false.

Try the fern life cycle quiz at

<http://www.purposegames.com/game/fern-life-cycle-quiz>