Worksheet 6: **Protists/Plants Answers**

Supplemental Instruction

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1. In the gametic life cycle all cells except theg produced bymeiosis	ametes are diploid. And gametes are
2. Reproduction is ciliates	
a) In the Asexual phase the organisms go th	roughmitotic division
b)The sexual phase is known asconjugat exchangemicronuclei	ion, in which the organisms
3. Why did plants leave the water and move to lan	d?
Less competition, little/no predators, water is crowded, more sunlight	
4. What are the adaptions that plants needed to live on land? Carotinoids→UV radiation protector Conservation of water → cuticle Autotrophs Sporopollenin→ protective coating protects spores and pollen from desiccation Guard cells → let air in (when open) and Prevent water loss when closed Gamotangia → protects gametes	
Xylem and Phloem → (some) vascular tissue Seeds → some	
Secondary plant products → (some) plant products (c	hemicals) that discourage animal predation
5. Define the following:	
Sporophyte- the diploid generation of plants (or pro	tists) that have a sporic life cycle

Sporangia- structures that produce and disperse the spores of plants (or protists)

Spore- a haploid reproductive structure of plants that is dispersed into the environment and is able to grow into a new plant gametophyte

Sporopollenin- the tough material that composes much of the walls of plant spores and helps to prevent cellular damage during transport in the air.