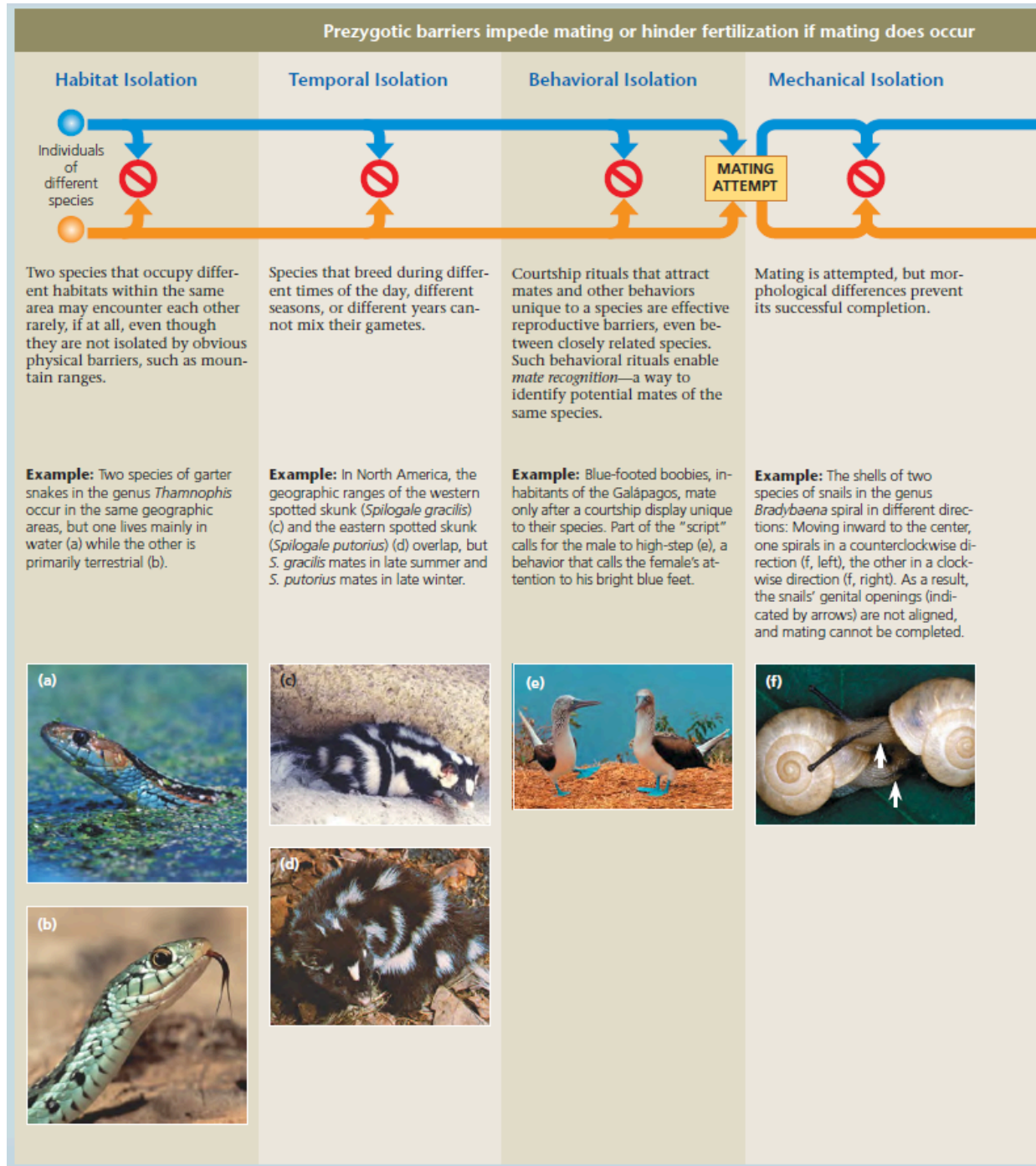


Cheat Sheet





Chapter 24 Questions

1. What is speciation?
2. What is *Phalacrocorax harrisi*?
3. What are microevolution and macroevolution?
4. According to the biological species concept, what is a species?
5. What is reproductive isolation?
6. What are hybrids?
7. Describe the 5 prezygotic barriers and 3 postzygotic barriers.
8. What is the morphological species concept?
9. What is the ecological species concept?
10. What is allopatric speciation?
11. What is *Gambusia hubbsi*?
12. What is the *Alpheus* genus?
13. What is sympatric speciation?
14. What is *Hyla versicolor*?
15. What percent of plants are polyploid?
16. What is an autopolyploid?
17. What is an allopolyploid?
18. What is the genus *Tragopogon*?
19. What is *Triticum aestivum*?
20. What is one of Earth's hot spots of animal speciation?
21. What are *Pundamilia pundamilia* and *Pundamilia nyererei*?
22. What is *Rhagoletis pomonella*?
23. What is a hybrid zone?
24. What are *Bombina variegata* and *B. bombina*?
25. What are *Poecile atricapillus* and *P. carolinensis*?
26. What are *Glaucomys volans* and *G. sabrinus*?
27. What is reinforcement?
28. What are *Ficedula hypoleuca* and *F. albicollis*?
29. What are *Anopheles gambiae* and *A. coluzzi*?
30. What is fusion?
31. What is punctuated equilibria?
32. What is *Helianthus anomalus*, *H. annuus*, and *H. petiolaris*?
33. What is the genus *Euhadra*?
34. What are *Mimulus cardinalis* and *M. lewisii*?

Chapter 24 Answers

1. Process by which one species splits into two or more species
2. Flightless cormorant
3. Changes over time in allele frequencies in population
Broad pattern of evolution above the species level
4. A group of populations whose members have the potential to interbreed in nature and produce viable, fertile offspring (do not produce fertile offspring with other species)
5. Existence of biological barriers that impede members of two species from interbreeding and producing viable, fertile offspring
6. Offspring that result from an interspecific mating
7. See picture
8. Distinguishes species by body shape/other structural features
9. Species defined in terms of its ecological niche
10. Gene flow interrupted when a population is divided into geographically isolated subpopulations
11. Mosquito fish
12. Genus of shrimp (snapping shrimp)
13. Speciation occurs in populations that live in the same geographic area
14. Polyploid gray tree frog
15. 80%
16. Individual that has more than two chromosome sets all derived from one species
17. Fertile polyploid resulting from the self-pollination of a infertile hybrid
18. Goatsbeard plants introduced by humans, now common weeds in U.S.
19. Wheat used for bread, allohexaploid (two sets from each of three species)
20. East Africa's Lake Victoria
21. Cichlids in Lake Victoria
22. North American apple maggot fly, pest of apples
23. Region where members of different species meet and mate
24. Yellow-bellied toad and fire-bellied toad
25. Black-capped chickadees and Carolina chickadees
26. southern flying squirrel, northern flying squirrel
27. Natural selection strengthening prezygotic barriers
28. pied flycatcher and collared flycatcher
29. malaria-carrying mosquitoes
30. Two species hybridize extensively, leading to them becoming a single species
31. Periods of apparent stasis punctuated by sudden change
32. Hybrid of last two, all are sunflowers
33. Japanese snails
34. Monkey flowers