

Section 21–2 Classification of Fungi (pages 530–536)

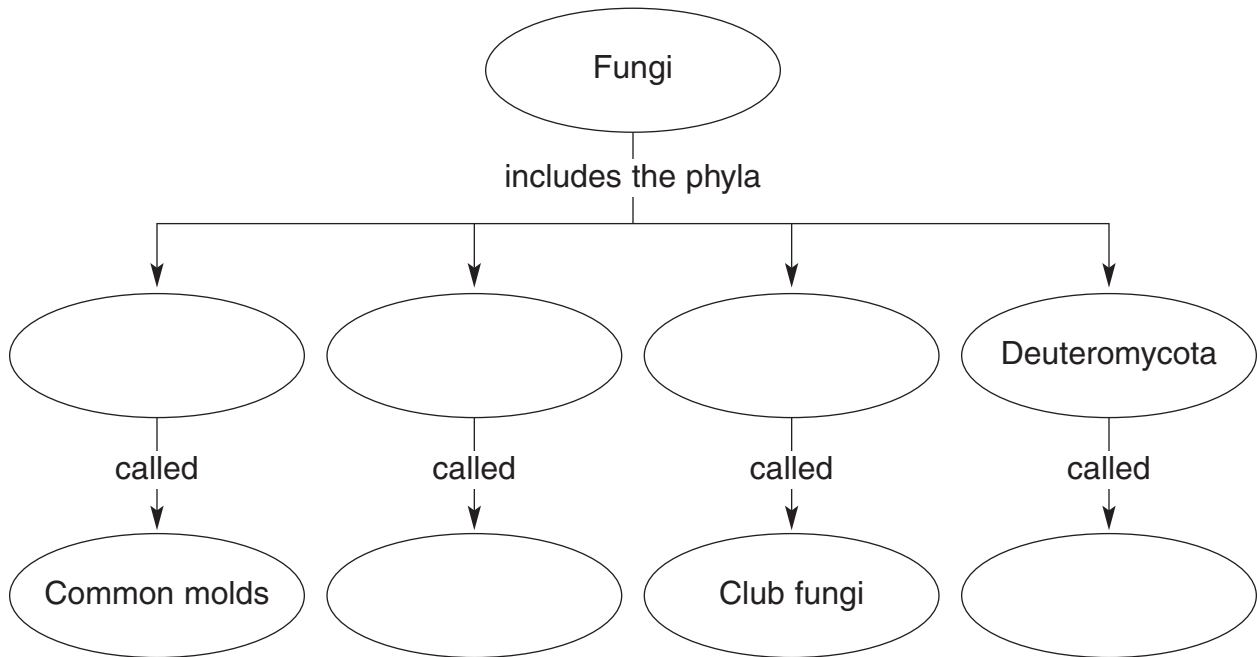


TEKS SUPPORT: 6E Significance of mitosis in asexual and sexual reproduction

This section describes the characteristics of the four main phyla of fungi.

Introduction (page 530)

- Complete the concept map about the four main groups of fungi.



The Common Molds (pages 530–531)

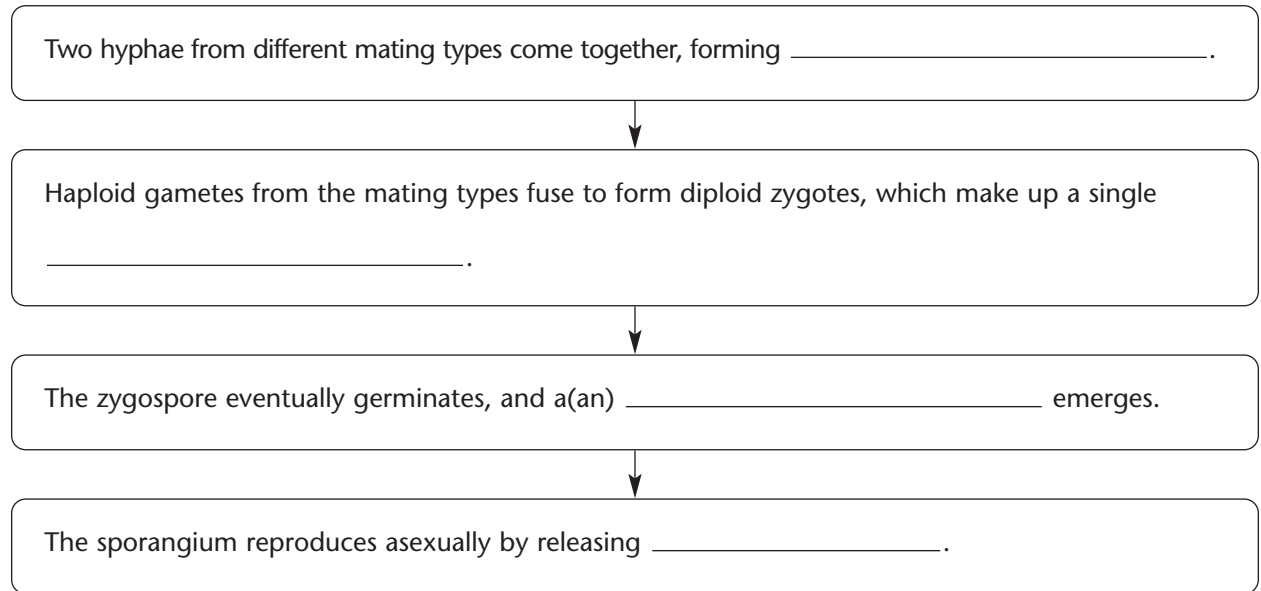
- What are zygomycetes? _____

- The resting spore formed during the sexual phase of the mold’s life cycle is called a(an) _____.
- Is the following sentence true or false? The hyphae of zygomycetes are generally divided by cross walls. _____
- What is the common name for *Rhizopus stolonifer*? _____
- Complete the table about the kinds of hyphae of black bread mold.

KINDS OF HYPHAE

Kind	Description
Rhizoids	
Stolons	
	Hyphae that push up into the air and form sporangia at their tips.

7. Complete the flowchart about sexual reproduction in zygomycetes.



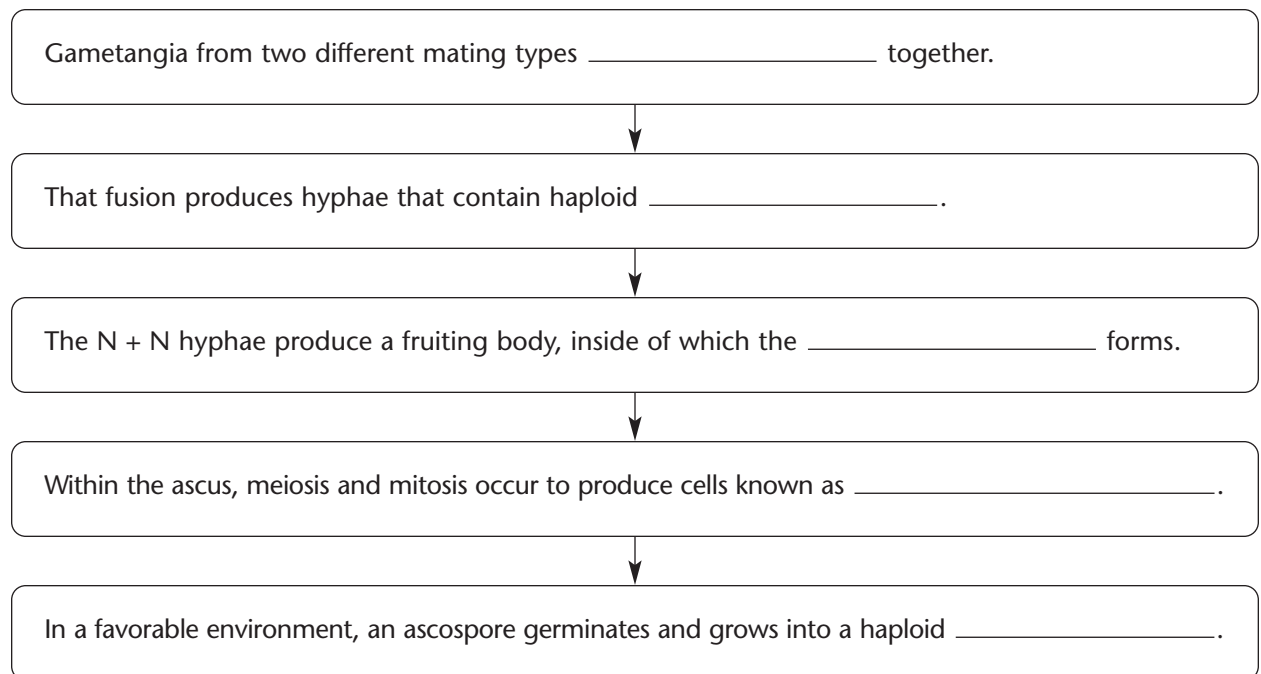
The Sac Fungi (pages 532–533)

8. What is an ascus? _____

9. Is the following sentence true or false? Ascomycetes make up the largest phylum in the kingdom Fungi. _____

10. What occurs among sac fungi during asexual reproduction? _____

11. Complete the flowchart about sexual reproduction in ascomycetes.



Name _____ Class _____ Date _____

12. Is the following sentence true or false? Yeasts are multicellular ascomycetes.

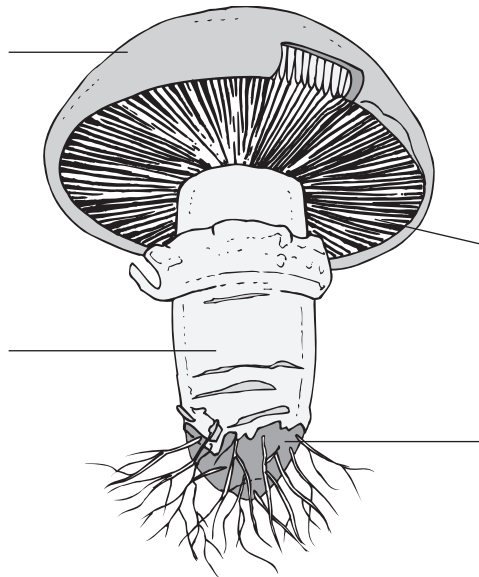
13. Why are yeasts classified as ascomycetes? _____

14. The common yeasts used for baking and brewing are members of the genus
_____.
15. What process do yeasts carry out to obtain energy when they are in a nutrient mixture such as bread dough? _____

The Club Fungi (pages 534–536)

16. From what does the phylum Basidiomycota get its name? _____

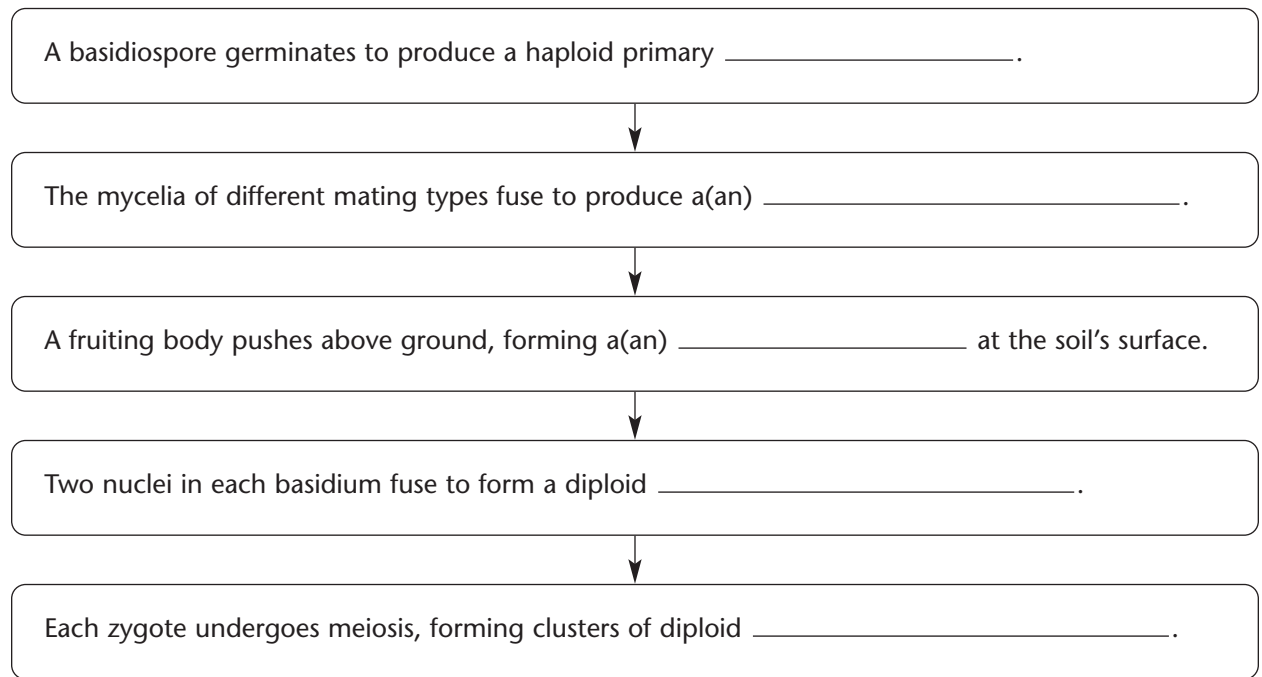
17. Label the parts of a mushroom.



18. Where are basidia found on a basidiomycete? _____

19. The cap of a basidiomycete is composed of tightly packed _____.
20. Is the following sentence true or false? The remarkable growth of mushrooms overnight is caused by cell enlargement. _____
21. Circle the letter of each example of basidiomycetes.
a. puffballs b. shelf fungi c. rusts d. yeasts
22. Why should you never pick or eat any mushrooms found in the wild?

23. Complete the flowchart about reproduction in basidiomycetes.



The Imperfect Fungi (page 536)

24. The phylum Deuteromycota is composed of what fungi? _____

25. What is *Penicillium notatum*, and where does it grow naturally? _____

26. What is produced from *Penicillium notatum*? _____

Reading Skill Practice

You can often increase your understanding of what you've read by making comparisons. A compare-and-contrast table helps you to do this. On a separate sheet of paper, make a table to compare the four main groups of fungi you read about in Section 21–2. For more information about compare-and-contrast tables, see Organizing Information in Appendix A of your textbook.