

Invertebrates Review Sheet

The questions below are covered in Chapters 26, 27, 28, 29 and 30 (pages 554 to 668). Please answer questions on a separate sheet.

Simple Invertebrates (Chapter 26 pages 554 to 560)

1. What is an invertebrate?
2. What are the three types of body plans/symmetry?
3. What are ganglia?
4. What is a gut? What is a coelum?

Sponges (Chapter 26 pages 560 to 563)

5. Why are sponges classified as animals?
6. Know the parts of a sponge and their functions: pores, collar cells, osculum, and spicules.
7. What type of symmetry does a sponge have?
8. Which animal phylum do sponges belong to?

Cnidarians (Chapter 26 pages 564 to 569)

9. What type of symmetry does a cnidarian have?
10. Which animal phylum do cnidarians belong to?
11. What are the 3 classes of cnidarians?
12. What is the difference between polyps and medusas?
13. What is a nematocyst?

Flatworms and Roundworms (Chapter 26 pages 570 to 578)

14. What type of symmetry does a flatworm/roundworm have?
15. Which animal phylum do flatworms belong to? Roundworms belong to?
16. What does a flatworm use to detect light? To detect food?
17. Which types of flatworms are considered parasites?

Mollusks (Chapter 27 pages 584 to 593)

18. What type of symmetry does a mollusk have?
19. Which animal phylum do mollusks belong to?
20. What are the 3 classes of mollusks?
21. Which environments do mollusks live in?
22. What is the function of the foot, visceral mass, mantle, and shell?
23. What type of circulatory system do mollusks have?

Annelid worms (Chapter 27 pages 594 to 600)

24. What type of symmetry does an annelid worm have?
25. Which animal phylum do annelid worms belong to?
26. What do annelid worms use to move?
27. How do annelid worms breathe?
28. How are annelid worms different from flatworms and roundworms?

Arthropods (Chapter 28 pages 607 to 631)

29. What type of symmetry do arthropods have?
30. Which animal phylum do arthropods belong to?
31. What four characteristics do all arthropods share?
32. What are the three main parts of an insect?
33. What is the difference between a centipede and millipede?
34. How are crustaceans, arachnids, and insects different from one another?
35. What is the difference between incomplete and complete metamorphosis?

Echinoderms (Chapter 29 pages 636 to 644)

36. What type of symmetry do echinoderms have?
37. Which animal phylum do echinoderms belong to?
38. What does echinoderm mean?
39. What is the water vascular system?

Invertebrates Vocabulary

Please write out the terms for review using whatever format works best for you (examples: Cue-cards, folded sheet, etc.)

Intro to Kingdom Animalia

1. Vertebrate
2. Invertebrate
3. Division of Labor
4. Herbivore
5. Carnivore
6. Parasite
7. Filter Feeder
8. Detritus Feeder
9. Larva
10. Metamorphosis
11. Radial Symmetry
12. Bilateral Symmetry
13. Anterior
14. Posterior
15. Dorsal
16. Ventral
17. Cephalization
18. Ganglion

Sponges

19. Porifera
20. Collar Cell
21. Osculum
22. Spicule
23. Amebocyte
24. Spongin
25. Gemmule
26. Budding

Cnidarians

27. Cnidaria
28. Polyp
29. Medusa
30. Gastrovascular Cavity
31. Nematocyst

32. Hermaphrodite

Unsegmented Worms

33. Unsegmented Worm
34. Platyhelminthes
35. Flatworm
36. Nematoda
37. Roundworm
38. Pharynx

Mollusks

39. Mollusk
40. Foot
41. Mantle
42. Shell
43. Visceral Mass
44. Radula
45. Gill
46. Open Circulatory System
47. Closed Circulatory System
48. Nephridium
49. Gastropod
50. Bivalve
51. Cephalopod

Annelids

52. Annelid
53. Polychaete
54. Oligochaete
55. Leech

Arthropods

56. Arthropod
57. Trilobite
58. Chelicerate
59. Crustacean
60. Uniramian
61. Exoskeleton

62. Chitin

63. Molt
64. Pupa

Spiders and Their Relatives

65. Arachnid

Crustaceans

66. Mandible

Insects and Their Relatives

67. Pheromone

Echinoderms

68. Echinoderm
69. Water Vascular System
70. Tube Feet

Invertebrate Chordates

71. Chordate
72. Notochord
73. Hollow Dorsal Nerve Cord
74. Pharyngeal Slit

Evolution of the Invertebrates

75. Phylogenetic Tree
76. Protostome
77. Deuterostome
78. Acoelomate
79. Pseudocoelomate
80. Coelomate
81. Coelom

Form & Function in Invertebrates

82. Hydrostatic Skeleton
83. Endoskeleton
84. Intracellular Digestion
85. Extracellular Digestion
86. External Fertilization
87. Internal Fertilization