

## Final - The Year in Biology

Today you will be using the following terms to create a graphic organizer to show the relationships between biological concepts. You will need to rough draft out your work before putting on a final piece of poster paper.

What do you do:

- 1) Identify the **five major concepts** that are in this list. These topics are terms in this list.
- 2) Box these in red.
- 3) All of the rest of the terms are the subtopics. Cluster these around the five main topics they are most closely associated with. Note: Be sure to leave lots of space in between each topic and subtopics for writing.
- 4) Underline each of the subtopics in green
- 5) Now you need to define each of the topic or subtopic next to the term.
- 6) Use arrows to show the connections between the major concepts and their subtopics. One concept may have multiple arrows connecting it to many of the main topics.
  - a) Arrows that are one direction indicate that the concept is a subtopic of the topic it is pointing at.
  - b) Arrows that are both direction mean that the two topics support each other and are equally important.
- 7) On the arrow lines, write explanations of the connection between the topics or/and subtopics.
- 8) Lastly, draw at least 10 other arrows that show the connections between the main topics that were boxed in red. These arrows should be in blue and have explanations on them.
- 9) Create a title that is creative, colorful, and sums up the work you have just done.

Vocabulary/Topics

1. Biochemistry
2. CHNOPS
3. Macromolecules
4. Lipid
5. Carbohydrate
6. Amino acid
7. Protein
8. Nucleic Acid
9. DNA
10. Cells
11. Mitochondria
12. Ribosomes
13. Chlorophyll
14. Membrane
15. Nucleus

16. Vacuole
17. Diffusion
18. Osmosis
19. Photosynthesis
20. Cellular respiration
21. Mitosis
22. Meiosis
23. Mutation
24. Gene
25. Chromosome
26. Organ Systems
27. Circulatory System
28. Integumentary System
29. Nervous System
30. Digestion System
31. Endocrine System
32. Immune Cells
33. Skeletal System
34. Muscular System
35. Organism
36. Adaptation
37. Natural Selection
38. Evolution
39. Virus
40. Bacteria
41. Fungi
42. Plants
43. Multicellular Organism
44. Carrying Capacity
45. Herbivore
46. Consumer
47. Producer
48. Ecology
49. Population
50. Community
51. Symbiosis
52. Succession
53. Food Web
54. Trophic levels
55. Carbon Cycle
56. Water Cycle
57. Climate Change
58. Sun