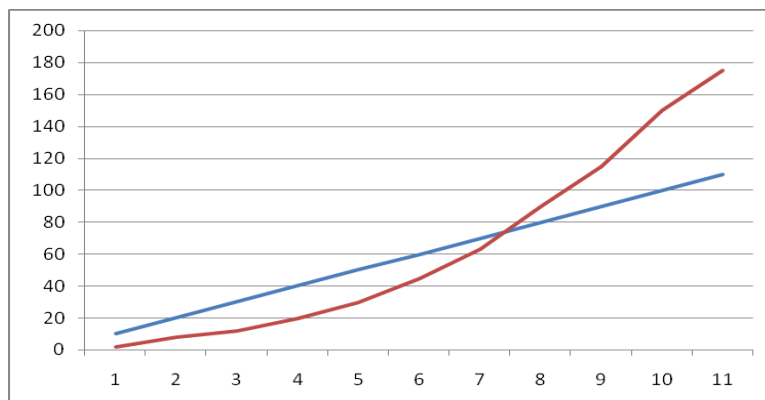


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Semester One Test/Benchmark Study Guide

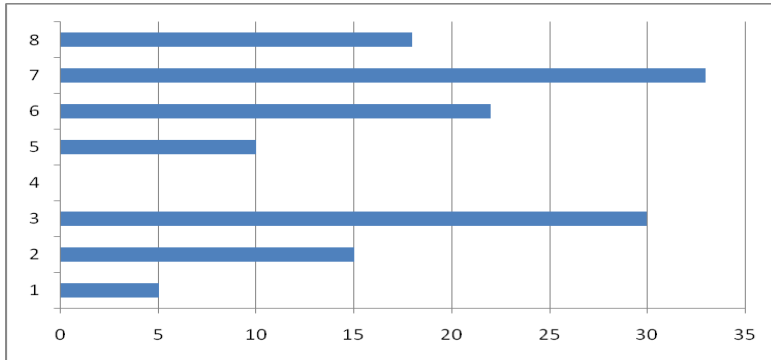
1. Write a paragraph about the history of cell research. Include dates, facts, and significant scientists.
2. Review your 50 safety rules. List 7 of the most important rules (your opinion).
3. List the steps of the scientific method. Be able to explain what happens in each step.
4. Be familiar with the format of the data tables we have used in various labs this year. Your notebook is a good place to look for this.
5. Analyze the graph below. Tell three things you notice about the graph.



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6. Analyze the graph below. Tell three things you notice about the graph.



7. Name the three types of investigations, and give examples of each (please use examples of investigations we have done this year).

8. List five tools we use in science. Tell how each one is used, and why we use it.

9. Explain how each of the three types of rocks is formed.

10. Give a few pieces of evidence that support the theory of plate tectonics.

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11. List four ways the appearance of the earth's surface can change. Which of these causes the quickest change? Which one is slowest?

12. What is the difference between a unicellular organism and a multicellular organism? Please list two examples of each.

13. Analyze the chart below. The data describes a situation in which children are collecting wildflower seeds from a field.

Days	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8
Seeds	25	50	100	125	150	175

Tell two things you notice about the data.

14. What is the difference between autotrophic organisms and heterotrophic organisms? List two examples of each.

15. List the parts of the cell that we learned about this year, and tell what they do. Remember the Redesigning the Cell activity.

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16. How can you tell whether an organism is eukaryotic or prokaryotic?

17. List the three domains and six kingdoms, and tell about the major differences between the kingdoms.

18. What are the major plates of the Earth? Be prepared to locate them on a map.

19. Why is the boundary of the Pacific plate nicknamed the "Ring of Fire"?

20. Why do oceanic plates subduct under another?

21. What is the difference between the asthenosphere and the lithosphere?

22. Explain why the plates move.

23. Why should you climb Mount Everest sooner rather than later?

24. What is the function of the rock cycle?

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25. Describe how you would identify each of the three types of rocks.

26. What is a mineral?

27. What are some physical properties used to identify minerals? Of these, which are most and least reliable?

28. List the four layers of the earth with the defining characteristics (composition, temperature, state of matter, thickness).