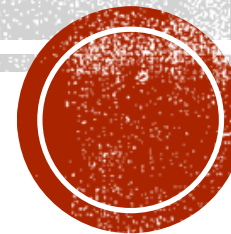


MELTING ICE

M1-16



QUESTION

Does the shade of ice effect how fast it melts?



ABSTRACT

My problem was does the shade of ice effect how fast it melts? My rational is for people to understand that the bigger the glaciers are the faster they melt because water is tinted blue, we can see it when it is a huge amount. My hypothesis is If the lighter colored water will melt slower than the darker color water will melt faster because the light will have more effect on the darker water. And my conclusion is that the darker shade does melt faster.



HYPOTHESIS

If the lighter colored water will melt slower than the darker color water will melt faster because the light will have more effect on the darker water.



MATERIALS

- Water
- Color dye (blue)
- Ice trays



PROCEDURE

1. Measure 5ml for 20 times each trial
2. Put one drop of dye in a cell (20 times)
3. Put two drop of dye in a cell (20 times)
4. Put zero drop of dye in a cell (20 times)
5. Freeze up to 4 hours
6. Place them out on a table at room temperature and record when they completely melt.



VARIABLES

Independent: Darkness of the ice cube

Dependent: The amount of time it takes for the ice cube to melt

Control: Tap ice cubes

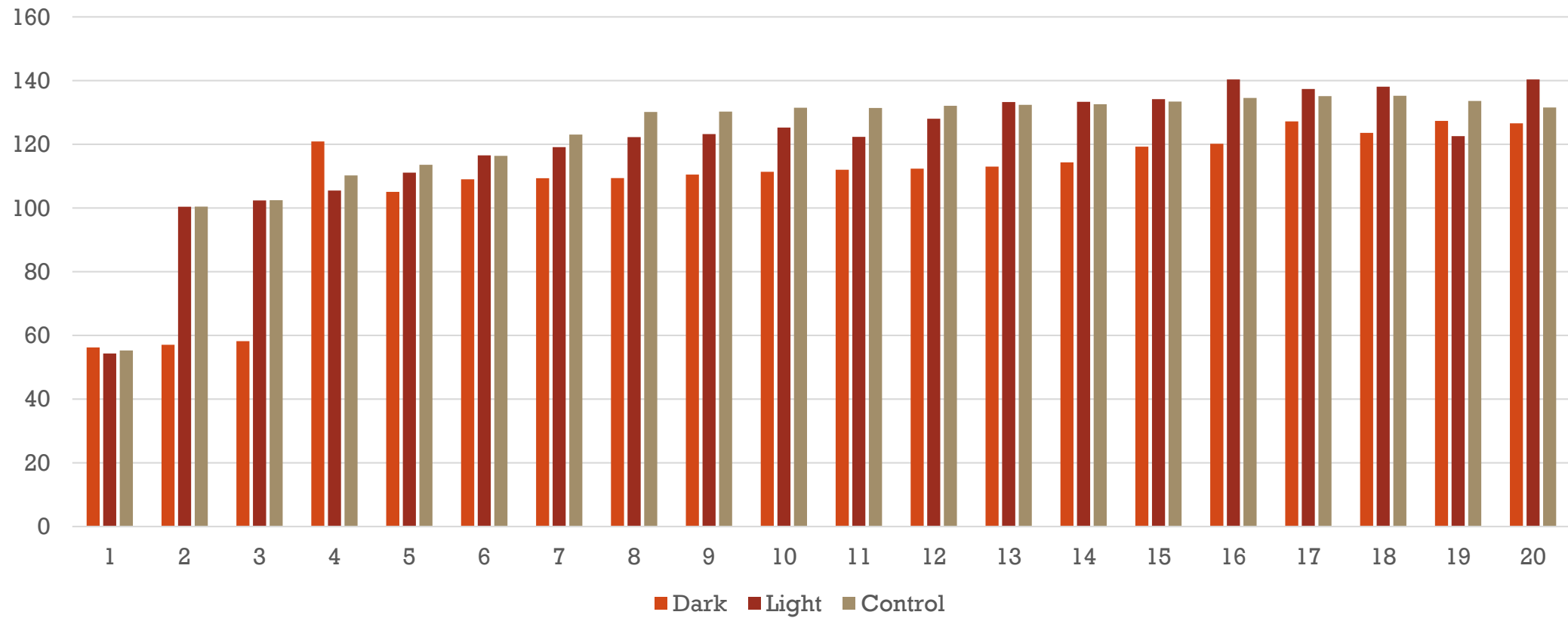


RESULTS

56. 24	57. 05	58. 20	1. 02. 00	1. 05. 26	1. 09. 04	1. 09. 36	1. 09. 36	1. 09. 40	1. 10. 50	1. 11. 38	1. 12. 04	1. 13. 02	1. 14. 37	1. 19. 26	1. 20. 07	1. 23. 58	1. 26. 02	1. 27. 02	1. 27. 35
54. 34	1. 00. 45	1. 02 .45	1. 05. 48	1. 11. 12	1. 16. 55	1. 19. 11	1. 22. 26	1. 22. 35	1. 23. 22	1. 25. 25	1. 28. 05	1. 33. 26	1. 33. 36	1. 34. 09	1. 34. 20	1. 40. 36	1. 37. 48	1. 38. 10	1. 22. 58
55. 28	1. 00. 45	1. 10. 22	1. 13. 54	1. 13. 59	1. 16. 40	1. 23. 07	1. 30. 18	1. 30. 27	1. 31. 50	1. 31. 40	1. 32. 09	1. 32. 30	1. 32. 40	1. 32. 58	1. 33. 42	1. 34. 56	1. 35. 13	1. 35. 26	1. 36. 36



GRAPH



CONCLUSION

My hypothesis was supported through my evidence. The darkest shade melted the fastest and the lighter shade melted slower.



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