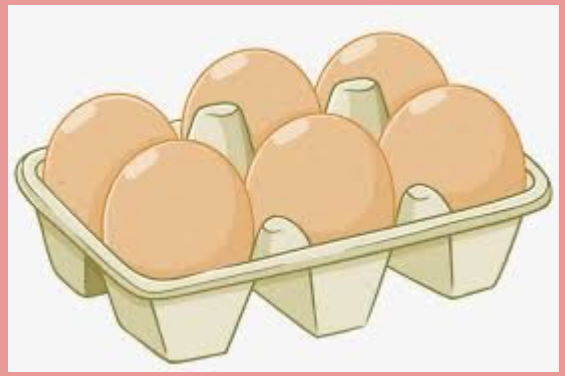
CLEAN TEETH HAPPY SMILES



Background research (summarized)

- Toothpaste helps clean teeth using ingredients like fluoride and sodium lauryl sulfate (SLS), which remove buildup and protect enamel.
- People have practiced dental care since ancient times, first using twigs and later brushes made from bamboo or bone with animal hair.
- Early toothpaste was a powder made from crushed eggshells, ash, salt, and other natural materials.
- Eating lots of sugar, soda, and acidic candy can reduce how clean and white teeth stay, even if you brush daily.
- This experiment tests which toothpaste cleans best by soaking tiles in soda and brushing them with different toothpastes to compare results.

Pictures

Tooth / Egg Discoloration Scale
Rate the discoloration from 1 to 5.
1
White
2
Very Light Brown
3
Light Brown
4
Medium Brown
5
Very Dark

Question

What is the effect of toothpaste brand on teeth-cleaning power?

hypothesis

If a person tries different tooth paste then they will find Colgate will be the best to clean off plaque and build up because Colgate has stronger ingredients to clean of teeth for a stronger gum and teeth

Variables

IV:Im seeing what toothpaste is the best for most teeth and what i'm changing is the types of toothpaste DV: The amount of cleanness
CV:The coke,and is how long the egg is soaked for.The amount of toothpaste how long its brushed for and brush

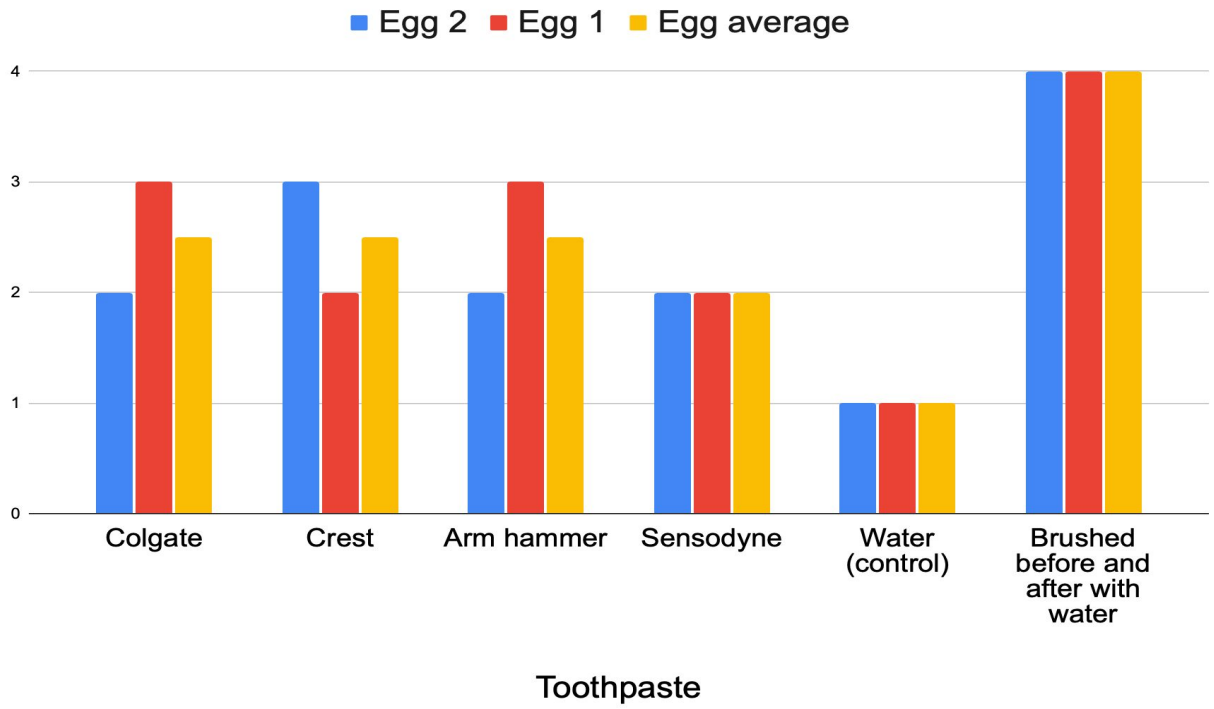
Materials

- Tooth brush (unname brand target)
- Containers
- Colgate toothpaste
- Arm and hammer toothpaste
- Sensodyne toothpaste
- Crest toothpaste
- eggshell
- Coke

Procedures

1. get a container and fill it with coke
2 get the eggshells and put it in and let it soak for
7 hours
3. take out and brush it with toothpaste for 2 minutes
4. repeat
Steps #1-3 with Arm and Hammer, Crest, and Sensodyne

Toothpaste	Egg 1	Egg 2	Egg average
Colgate	3	2	2.5
Crest	2	3	2.5
Arm hammer	3	2	2.5
Sensodyne	2	2	2
Water (control)	1	1	1
Brushed before and after with water	4	4	4


Egg 2
Egg 1
Egg average
4
3
2
1
0
Colgate
Crest
Arm hammer
Sensodyne
Water (control)
Brushed before and after with water
Toothpaste

Results

ın the experiment eggs got clean with different brands of toothpaste brushed for 2 mins each.
Eggs were put in a glass jar bottle with coke. The eggs got brown really fast and left for 7 hours. The eggs that got brushed with water before ended up being a darker brown than the other eggs. The Sensodyne had the cleanest results and and brushed before and water with water had the least cleanest results all the eggs were the same colors but all had different results of cleanliness

Conclusions

My hypothesis was incorrect because I thought that the crest was going to be the cleanest. The sensodyne ended up being the cleanest one. It got a two on the scale compared to four on the scale .I had to make some adjustments by the amount of 7 hours in 24 hours. Some things that people could learn from this science experiment is to always brush your teeth,and to show someone that some brands are good for brushing your teeth to have an clean enamel.some ways i could have improved in this experiment is that I could have put more thought on how I was going to my experiment and really looked into it. Questions I have are that would whitening toothpastes work any better or if different sodas would work differently like fanta or sprite if it would have been orange. I was surprised at how quickly the eggs got darke

Future research

Why this project is important is because it lets people know to brush your teeth and have them clean and if they dont they will have rotted teeth that are unhealthy.something that could have been tested with this experiment is that how fast it take cavities to grow after drinking coke.

Resources

https://www.adea.org/godental/discover-dentistry/history-and-data/history-of-dentistry

https://www.history.com/articles/dental-care-teeth-cleaning-through-history

https://www.dental.sa.gov.au/advice/ingredients-of-toothpaste

https://www.bostonsmile.com/blog/2017/12/04/a-brief-history-of-toothpaste-187775/