



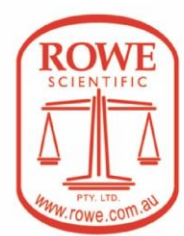
Prize Winner

Scientific Inquiry

Year R-2

Liam Hooper

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Liam Hooper's Scientific Inquiry

"Understanding Beyblades"

Questioning and Predicting

In my inquiry I am asking the question: **Which beyblade has the most stamina?**

My prediction is that Dread Phoenix will have the most stamina.

Planning and Conducting

To test which beyblade has the most stamina I will time how long individual beyblades can spin for. Beyblades can be set to 'attack' and 'defense' modes and I am choosing to test all on the 'defense' mode.

The variables are that the different beyblades all have different strengths such as attack, defense, stamina, weight and endurance.

I will test 10 different beyblades and measure the time it takes for them to stop spinning. It is not really a fair test because all of the beyblades have different strengths and weaknesses and this will effect the spin time.

Steps:

- Set up all materials listed in 'equipment and materials'
- Take one beyblade, set it up in the ripper
- Have one person on the timer and as soon as the beyblade is ripped then start the timer
- Stop the timer when the beyblade stops spinning
- Record the time
- Repeat this procedure 2 more times to get 3 times for each beyblade

Equipment and Materials

Beyblades: Dread Phoenix, Xcalius, Phoenix, Forneus, Turbo Achilles, Air Knight, Treptune, Kerbeus, Geist Fafnir, Luinor

Beyblade Stadium

Beyblade ripper

Glasses (for eye protection)

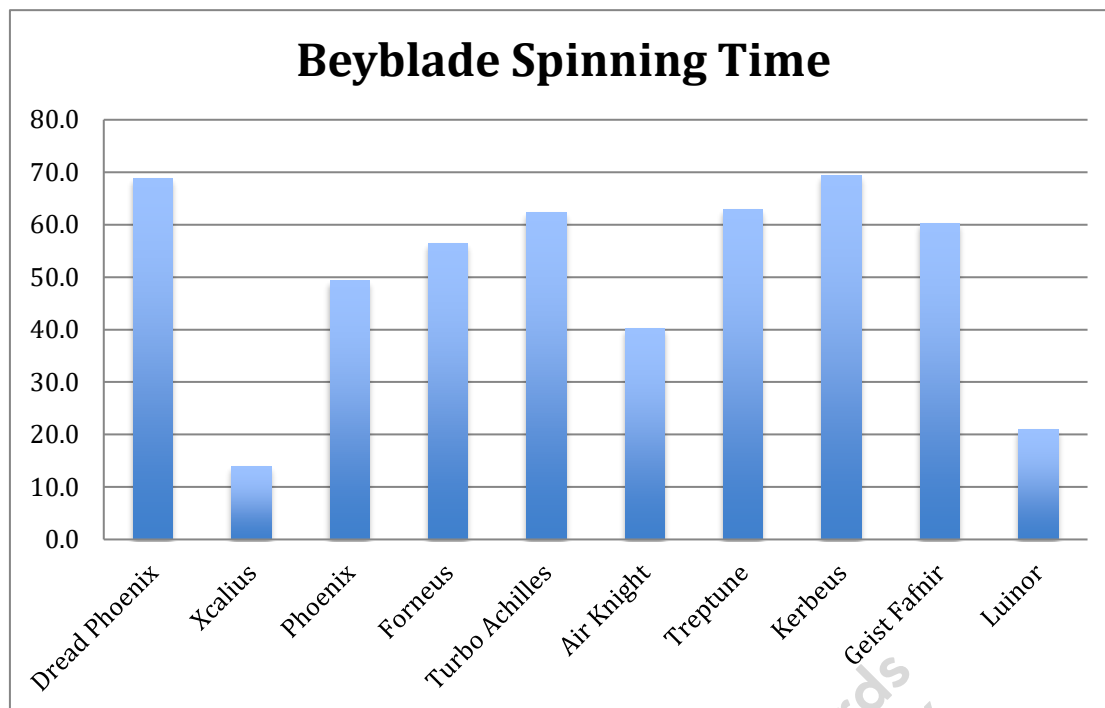
Stopwatch timer

Pen and Paper

There is a risk to people when handling beyblades because they spin really fast and can hurt people, so only the person handling the beyblade will sit close to the stadium and that person will wear glasses to protect their eyes.

Processing and Analysing Data

Name	Time 1 (seconds)	Time 2 (seconds)	Time 3 (seconds)	Average Time (seconds)
Dread Phoenix	78.65	70.25	57.63	68.8
Xcalius	15.10	12.96	13.43	13.8
Phoenix	46.36	48.72	52.97	49.4
Forneus	52.44	54.41	62.16	56.3
Turbo Achilles	68.38	59.69	58.78	62.3
Air Knight	37.31	41.66	41.66	40.2
Treptune	60.59	69.62	58.43	62.9
Kerbeus	71.63	70.09	66.44	69.4
Geist Fafnir	58.06	63.47	58.94	60.2
Luinor	20.62	23.84	18.53	21.0



This graph shows that Dread Phoenix and Kerbeus have the greatest stamina and Xcalius and Luinor had the least stamina. Turbo Achilles, Treptune and Geist Fafnir all spun for a similar time.

I was expecting that Dread Phoenix would have the most stamina and that was correct. If I were to recommend a beyblade with lots of stamina to a friend in a battle I would suggest using Kerbeus, Dread Phoenix, turbo Achilles, treptune and geist fafnir.

Evaluation

The investigation could be improved by choosing similar types of beyblades to compare against, such as those with a similar weight or same amount of attack or defense.

I think some people who love playing with beyblades would find these results interesting because it could help them with what beyblade to choose in a battle.

There are lots of different questions that could be asked for beyblades, such as:

- Which beyblade is the most attacking?
- Which beyblade is the most defensive?
- Which beyblade wins the most battles?

Communicating

My knowledge has come from using the beyblades that I own, watching tutorials on YouTube and talking to my friends. The beyblades were bought from Kmart, Target and Myer and they were developed by Takara and manufactured by Tomy.

In my inquiry I have answered all of the questions and Mum has typed the answers for me. When I conducted the experiment I used the stopwatch timer, Millie (my sister) and I recorded the times on paper and Mum did the beyblade ripping for me.