

Project:

Does dog behavior change with the moon phases?

Playfulness

- 1 relaxing walking around
- 2 playing for little bit loses interest
- 3 barking running around going crazy

Responsiveness

- 1 ingroning
- 2 response sometimes
- 3 response all the time and immediately

Sleppiness

- 1 alert and moving around
- 2 barley moving
- 3 sleeping

Hypothesis:

My hypothesis is . . .

My dog will be more excited and playful during a full moon compared to a new moon. It is found that dogs and animals tend to have more energy, because it is brighter on a full moon night, so that means they can see things better like squirrels. Which means that dogs and animals get more excited and want to stay up and do more things (like run around or chase a ball, something a dog would do when it's light out). The moon doesn't produce energy like the sun (the sun gives energy to the plants to grow, and dogs get that energy from the sun through the plants they eat in their food. They can't get sunlight energy directly). But a brighter night, because of the moon, can lead to more activity. So that's why I think my dog will be more excited on a full moon and less on a new moon.

Steps to my experiment:

1. First you need the two most important things: a dog and the moon. Your dog's age may matter. If your dog is older, he may always be asleep and not move around a lot. But if you have a puppy, that also may not work. Your puppy may always be very excited or very sleepy. The dog you use may need to be around middle age. Middle age for a small dog would be around 5-6 years, medium dogs 5-7, and big dogs 6-7. A smaller dog would be like a chihuahua, a medium dog like a dachshund and finally, a large dog would be like a golden retriever. You will also need a chart to track your dog's activity. My chart has the date and moon phase.
2. Now you will need to pick categories. My categories are playfulness, responsiveness, and sleepiness. You need to pick categories that are appropriate. By that I mean something like sleepiness, you test how sleepy your dog is, like if he is sleeping or walking around. Something that would be inappropriate would be how much food he can eat.
3. Third, you will need to set a time to do your experiment everyday. Your time can vary by 1 to 2 minutes, but it should be around the same time everyday. I do my experiment at 5:35 pm everyday.
4. You may want a second person to help you with it so you can get their opinion. Also if one of your categories is responsiveness, you can call your dog and then they can call the dog, because your dog could already be focussing on you and watching you so you wouldn't really be able to get accurate data.
5. You also need to set up a time frame for how long you're going to do your experiment. You can't do it for only 2 days because that data is not accurate. Those two days could be the same moon phase, and your dog could be feeling the same way for those two days. You **MUST** have at least a month or two. The longer you do the experiment, the more accurate the data is.
6. Once you have collected all your data, you must analyze it. The first step to doing that is looking at the two biggest moon phases, which are a new moon and a full moon. You will want to find if there are any significant differences in your dog's behavior. Once you've done that, you can start looking at the other moon phases.

7. Finally, you can now create your presentation. To share with friends, family.

Conclusion:

My conclusion is that, no, dogs behavior does not change with the moon phases. I have looked at the biggest moon phases and the behavior was the exact same for both. If you also go deeper into the other moon phases, there is no significant difference in the behavior. This finding may be different with different breeds or activities (by that I mean, my dogs a border collie, he just lays around all day. But other border collies may be herding sheep and running around a farm yard). But a regular sleep, energetic house dog's behavior does not change with the moon phases

What I would have done differently:

The thing I would have done differently with my experiment is: starting at an early time to get more data, and maybe get one or two more dogs to do the experiment on.

Link for moon phase:

<https://www.timeanddate.com/moon/phases/>

Link for google scholar question:

<https://books.google.ca/books?hl=en&lr=&id=olzuEAAQBAJ&oi=fnd&pg=PT6&dq=how+are+dogs+brains+connected+to+their+activities.&ots=UHZJoCrfnq&sig=wCsZLAQGWsQni4UVbHtQtrBRrLA#v=onepage&q=how%20are%20dogs%20brains%20connected%20to%20their%20activities%2C&f=false>

Chart will be based on:

- Playfulness

DATE and MOON Playfulness Sleepiness Responsiveness

Nov 13 WaningCrescent	m		
Nov 14 WaningCrescent	m		
Nov 15 WaningCrescent	m		
Nov 16 WaningCrescent	m		
Nov 17 WaningCrescent	m		
Nov 18	1	1	3

WaningCrescent			
Nov 19 New moon	2	1	2
Nov 20 WaxingCrescent	1	3	1
Nov 21 WaxingCrescent	2	1	3
Nov 22 WaxingCrescent	m		
Nov 23 WaxingCrescent	2	2	2
Nov 24 WaxingCrescent	1	1	1
Nov 25 WaxingCrescent	m		
Nov 26 WaxingCrescent	1	1	3
Nov 27 First Quarter	1	1	2
Nov 28 Waxing Gibbous	1	2	2
Nov 29 Waxing Gibbous	1	1	3
Nov 30 Waxing Gibbous	1	1	3
Dec 1 Waxing Gibbous	1	2	3
Dec 2 Waxing Gibbous	m		

Dec 3 Waxing Gibbous	m		
Dec 4 Full Moon	2	1	2
Dec 5 Waning Gibbous	1	2	3
Dec 6 Waning Gibbous	1	2	3
Dec 7 Waning Gibbous	1	1	2
Dec 8 Waning Gibbous	1	1	2
Dec 9 Waning Gibbous	1	2	3
Dec 10 Waning Gibbous	m		

Dec 11 Third Quarter	1	1	3
Dec 12 WaningCrescent	m		
Dec 13 WaningCrescent	m		
Dec 14 WaningCrescent	m		
Dec 15 WaningCrescent	1	1	3
Dec 16	m		

WaningCrescent			
Dec 17 WaningCrescent	m		
Dec 18 WaningCrescent	1	1	2
Dec 19 New Moon	m		
Dec 20 Waxing crescent	1	1	3
Dec 21 Waxing crescent	1	2	3
Dec 22 Waxing crescent	1	1	2
Dec 23 Waxing crescent	1	2	3
Dec 24 Waxing crescent	m		
Dec 25 Waxing crescent	1	2	2
Dec 26 Waxing crescent	1	2	2
Dec 27 First Quarter			
Dec 28 Waxing Gibbous			
Dec 29 Waxing Gibbous			
Dec 30 Waxing Gibbous			

Dec 31 Waxing Gibbous			
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