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| **Statement** | **Testable/ Not Testable** | **How to Make it Testable** |
| Do fingers wrinkle faster in hot or cold water? | Put finger in hot water , capture the Time when finser wrikls – T1  Put finder Hot water – T2  If T2 > t1 - |  |
| How do cats meow? | Pull the leaft ear – If cat meows –  Plull the right ear – cat meows  Fill the milk in feeding bowl – cat meows?  Show a rat to the vcat – Meows? | Will the cat mewo if I pull the ear.  Will the cat meow if I give him milk  Will the cat meow if it sees a rat. |
| What makes plants grow? | (Not Testable)  Place the plant in sunlight ,see if it grows  Water the plant ,check if plant grows  Add fertilizer to the soil , see if there is any change in the plant growth | Does the amount of sunlight affect plant growth?  Does the amount of water given to a plant affect how tall it grows?  Does adding fertilizer increase the growth rate of a plant?  Does the type of soil affect plant growth?  Does temperature affect how fast a plant grows? |
| Does soil type affect plant growth? | (Testable)  Plant the same type of seed in different soil types  give equal water and sunlight, then measure plant growth |  |
| How do kites work? | (Not Testable)  Fly a kite in different wind speeds and measure how high it goes.  Keep the kite, string, and angle the same each time. | Does wind speed affect how high a kite flies?  Does the length of string affect how high a kite can go? |
| Does Pepsi have more carbonation than Coke? | (Testable)  Measure the amount of gas released from equal volumes of Pepsi and Coke under the same conditions |  |
| What makes something sink or float? | (Non Testable)  Compare objects of different densities in water. Measure mass and volume to calculate density and see what sinks.  Use the same material (like clay), shape it differently, and observe whether it floats or sinks. | Does the density of an object affect whether it sinks or floats?  Does the shape of an object affect floating? |
| Does the saltiness of water affect how fast it freezes? | (Testable)  Prepare water samples with different amounts of salt  put them in a freezer at the same time, and record the time each takes to freeze. |  |
| Does the temperature of the air impact how high a basketball bounces? | (Testable)  Inflate basketballs to the same pressure, place them in rooms with different air temperatures  drop them from the same height, and measure how high they bounce. |  |
| Can I design a device that attaches my skateboard to my bike? | (Testable)  Sketch and build a prototype using materials like clamps, straps, or 3D printed parts. |  |
| Does the amount of tv people watch affect their school attendance? | (Testable)  You can collect data from a group of students about how much TV they watch daily and compare it to their school attendance records.  Look for patterns or trends. Make sure to consider privacy and ethical guidelines when gathering personal data. |  |
| Can differently scents in the room affect how long people sleep? | (Testable)  Have participants sleep in rooms with different scents  Use sleep trackers or reports to measure how long they sleep.  Keep other variables like noise, light, and temperature the same. |  |
| When will fossil fuels run out? | (Non Testable)  Analyze historical data on fossil fuel consumption over the past decades.  Compare fossil fuel usage data with population growth trends over time.  Use existing data to model or simulate depletion based on current rates. | Does the rate of fossil fuel use increase each year?  How does population growth affect fossil fuel consumption?  How long would it take to use up known fossil fuel reserves at the current usage rate? |
| How do batteries work? | (Non-Testable)  Place identical batteries in devices and test them in different temperature conditions, then measure how long they last.  Measure the voltage of AA, AAA, C, and D batteries with a voltmeter and compare. | Does temperature affect how long a battery lasts?  Does the size of a battery affect its voltage? |
| Why is the colour blue calming? | (Non testable)  Show people blue vs. other colors and measure heart rate or blood pressure using a monitor.  Ask participants to rate their mood in differently colored rooms using a simple survey or mood scale. | Does the color blue lower people's heart rate compared to other colors?  Do people feel more relaxed in blue-colored rooms than in red ones? |
| Does using emojis make people happy? | (Testable)  Show participants messages with and without emojis, then have them rate how they feel after reading each.  ou can also survey people on how they feel when using emojis in texts or social media. |  |
| Can I solve the problem of my grandfather finding his way to the bathroom at night without turning on a light? | (Testable0  Design a solution (like glow-in-the-dark tape, motion-sensor night lights, or floor path indicators), test it at night, and observe if he can safely find his way without turning on a bright light. |  |
| Does eating school lunch affect how alert people are in their afternoon classes? | (Testable)  Have students self-report their alertness or attention levels in afternoon classes, comparing those who ate school lunch vs. those who didn't.  You could also use a short quiz or reaction-time test after lunch to measure alertness. |  |
| Does having plants in a house reduce the carbon dioxide level in the house? | (Testable)  Set up two identical rooms—one with plants and one without.  Measure the carbon dioxide levels at regular intervals.  Compare the readings between the two rooms. |  |
| Can I create a backpack/umbrella combination? | (Testable)  Design and build a prototype backpack with an integrated umbrella that can easily be accessed when needed.  Test it for comfort, functionality, ease of use, and durability.  Try it out in real-world conditions like rain and busy spaces. |  |
| Why am I awesome? | (Non Testable)  Create a survey where people rate traits like creativity, kindness, and problem-solving to see which qualities people appreciate the most.  Track instances when you help others (e.g., volunteering, small acts of kindness) and survey how people perceive your helpfulness. | What personal qualities make me awesome?  Does the number of times I help others affect how others see me? |
| Why are Reese’s Cups so good? | (Non Testable)  Conduct a taste test with participants, comparing Reese’s Cups (peanut butter and chocolate) to other combinations (e.g., caramel and chocolate, peanut butter and toffee). Ask people to rate their enjoyment. | Does the combination of peanut butter and chocolate taste better than other flavors? |
| Why is our galaxy moving? | (Non Testable)  Observe the movement of galaxies using telescopes and analyze how their movement relates to the position of nearby galaxies or other cosmic bodies. | Does the motion of galaxies depend on gravitational attraction? |
| Why do people watch tv? | (Non Testable)  Track participants' moods before and after watching TV for a set period, using a simple survey or mood scale to see if their mood changes based on the content.  Conduct an experiment where participants watch different types of TV shows and measure changes in their stress levels or relaxation using heart rate or surveys before and after. | Does watching TV influence people's mood?  Does watching TV help people relax? |