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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? | Put red soil and black soil- Check plant growth  Put plant under roof to block sunlight – check plant growh | Include factors like  Soil type  Will plants grow if Sunlight Availability is low  Will plants grow in low temperatures e.g:<0 degree celsius |
| Does soil type affect plant growth? | Use red soil for plant – Check the growth-G1  Use black soil for plant – Check the growth- G2  If G1>G2 or G2>G1 |  |
| How do kites work? | Check wind speed  CHeck the material of Kite | Will kite work if wind speed is high/low  Will kite work if it is made of plastic or metal |
| Does Pepsi have more carbonation than Coke? | Check Carbonation of Pepsi – P  Check Carbonation of Coke– C  If P>C - |  |
| What makes something sink or float? | Take an object  Keep in water  Keep in oil | Include factors like  What liquid is being used  What object is being used |
| Does the saltiness of water affect how fast it freezes? | Mix Salt in water – Freeze it – Check Freeze time – F1  Take Plain Water without Salt – Freeze it – Check Freeze time – F2 if F1>F2- |  |
| Does the temperature of the air impact how high a basketball bounces? | Bounce Basketball under low temperature conditions – B1  Bounce Basketball under high temperature conditions – B2  If B1!= B2 |  |
| Can I design a device that attaches my skateboard to my bike? |  | Prototype the device, test stability, usability. |
| Does the amount of tv people watch affect their school attendance? | Collect data of students watching TV more-M  Collect data of students watching TV less-L  Collect their school attendance percentage –MP and LP  If MP<LP |  |
| Can differently scents in the room affect how long people sleep? | Collect different samples of scents  Compare by changing scents of a person’s room and collect sleep data S1,S2,...SN  (N represents no of scents) |  |
| When will fossil fuels run out? | Check the current reserves of fossil fuel  Compare with the current usage  Check the alternative sources of fossil fuels | Include factors like  What are the current fuels available  What is the usage  What are the alternatives that can be used |
| How do batteries work? | Not testable | Ask: “Can I demonstrate how a battery produces voltage?” — then test with simple circuits. |
| Why is the colour blue calming? |  | Reframe: "Do people report feeling calmer in a blue-colored room?" Then survey. |
| Does using emojis make people happy? | List no of people who are using emojis-N  List no of people who are happy using emojis-H  Check percentage | What is the percentage criteria for people to be happy while using emojis to consider that people who use emoji are happy? |
| Can I solve the problem of my grandfather finding his way to the bathroom at night without turning on a light? | Can Motion lights take him there?  If the path is already glowing/will glow if grandfather steps in, can he make it to bathroom? | Prototype solutions (e.g. motion lights, glowing path), test usability. |
| Does eating school lunch affect how alert people are in their afternoon classes? | Check students’ alertness of  Students who eat lunch? L  Students who don't eat lunch? N  If N>L | |  | | --- | |  |  |  | | --- | | Track students who eat vs skip lunch, assess performance/alertness. | |
| Does having plants in a house reduce the carbon dioxide level in the house? | Put some plants in the house  Check the reading of carbondioxide levels of house with plants – C1  Check the reading of carbondioxide levels of house without plants – C2  If C1>C2 - |  |
| Can I create a backpack/umbrella combination? | Testable | Sketch or build a prototype, test functionality. |
| Why am I awesome? | Not Testable | Define metrics for awesomeness for e.g., doings, what people think about me etc. |
| Why are Reese’s Cups so good? | Not testable | Opinion-based; you could reframe to: “Do people prefer Reese’s over other candies?” |
| Why is our galaxy moving? | Not testable |  |
| Why do people watch tv? | There are Serials There are Movies There are Game shows There are Dance shows | Do Serials attract people? Do Movies attract people? Do Gameshows attract people? Do Dance Shows attract people? |