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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 - | Put finger in cold water – record time until wrinkling.  Put finger in hot water – record time. Compare both times. |
| 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? | Keep the plant in different type of soil, obseve the growth  water the water,  weather | What soil to makes plant grow?  What weather condition to makes plant grow? |
| Does soil type affect plant growth? | Normal soil will grow plants,  Red soil will grow plants, | Plant same seeds in different soil types? |
| How do kites work? | Blow wind into kite?  Throw kite?  Fly kite in strong wind | What is the type of threads?  What paper should use?  What design should use? |
| Does Pepsi have more carbonation than Coke? | Pour Pepsi – measure fizz  Pour Coke – measure fizz Compare CO₂ levels Testable | Pour equal amounts of Pepsi and Coke. Measure fizz height to measure CO₂ released. |
| What makes something sink or float? | Paper will sink or float  Bottle will sink or float | What are the material is sink or float in water?  What is the dense of the material less in water? |
| Does the saltiness of water affect how fast it freezes? | Freeze the water with lesser salt?  Freeze the water with more salt? | Freeze equal volumes of more,less salty, and very salty water. Record freezing time for each. |
| Does the temperature of the air impact how high a basketball bounces? | Bounce the basketball in higher temperature and observe it?  Bounce the basketball in lower temperature and observe it? | Drop a basketball from same height in high and low temperature. Measure bounce height. |
| Can I design a device that attaches my skateboard to my bike? | Design the device from start?  Gather the material to design? | Create the model to test?  It is Safety? |
| Does the amount of tv people watch affect their school attendance? | Make people to watch tv more time?  Make people to watch tv less time? | Will watch tv more time will affect the attendance?  Will watch tv less time will affect the attendance? |
| Can differently scents in the room affect how long people sleep? | Fill room with pleasant scent and observe the sleep?  Fill room with unpleasant scnt and observe the sleep? | What specific scent?  Whether it affect all or not? |
| When will fossil fuels run out? | Use the fossil fuel daily | What is alternative? |
| How do batteries work? | What type of chemical used?  Durability of the battery? | What type of battery?  What is the capacity of battery?  What is the size? |
| Why is the colour blue calming? | Sit people in blue room – ask how they feel | What condition should apply? |
| Does using emojis make people happy? | What are the specific emojis make people happy?  Send with emoji reaction  Send without emoji reaction | Send messages with emojis?  Send messages without emojis? |
| Can I solve the problem of my grandfather finding his way to the bathroom at night without turning on a light? | observe if he finds it easier with tourch?  observe navigation using tourch? | Safety measure?  Grandfather is tag along with me? |
| Does eating school lunch affect how alert people are in their afternoon classes? | kids who ate lunch and observe them  kids who didn't eat lunch and observe them | Compare post-lunch alertness or test performance between students who ate lunch and those who didn't. |
| Does having plants in a house reduce the carbon dioxide level in the house? | Measure CO₂ in room with plants  Measure CO₂ in same room without plants | Monitor CO₂ levels over several days by placing a CO₂ meter in a room with plants and a room without plants, then compare the readings. |
| Can I create a backpack/umbrella combination? | Design and build combo  weather resistance | Can create prototype?  It works in real life? |
| Why am I awesome? | Help other people, Engage with people faster | How frequently engage and help other people? |
| Why are Reese’s Cups so good? | Do you like the chocolate and peanut butter combo? | Conduct a blind taste test with 3–4 types of chocolate. Follow up with a quick poll to see which flavor combo is preferred. Analyze the percentage of participants who favor each one. |
| Why is our galaxy moving? | Do the results suggest that all galaxies are moving away from each other? | Research and theories Observe data and identify patterns of movement. |
| Why do people watch tv? | why they watch TV entertainment, news, background noise? | Record the reasons provided, categorize them, and tally how often each reason appears |