|  |  |  |
| --- | --- | --- |
| **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? | Sunlight, water, air, soil | Will sunlight makes plants grow?  Will water makes plants grow?  Will air helps plants grow?  Will soil makes plants grow? |
| Does soil type affect plant growth? | -Take different types of soil and use same sample plant in them  -measure the heights of the plant after some days  - Compare leaf health and root spread |  |
| How do kites work? | Different wind speeds and different shapes of kite | -how do kites fly if the wind speed is low.  -how do kites fly if the wind speed is high  -does different size kites work differently? |
| Does Pepsi have more carbonation than Coke? | -take pepsi and coke test them with the ph paper. |  |
| What makes something sink or float? | density | Does water density makes something float or sink |
| Does the saltiness of water affect how fast it freezes? | -freeze same amount of water with different salt amounts  -note down the freezing time of all samples. |  |
| Does the temperature of the air impact how high a basketball bounces? | -Bounce same ball at different room temperatures.  - measure bounce height. |  |
| Can I design a device that attaches my skateboard to my bike? |  |  |
| Does the amount of tv people watch affect their school attendance? | -Survey students for TV hours vs attendance  – look for patterns. |  |
| Can differently scents in the room affect how long people sleep? | --Let group sleep with lavender, lemon, or no scent  – track sleep time. |  |
| When will fossil fuels run out? | Coal required Oil required Natural Gas required | Coal should be in range from 132 to 150 years Oil should be in range from 47 to 56 years Natural gas should be in a range from 49 to 52 years. Then it is to make testable |
| How do batteries work? | Chemical reaction – T1 Electrodes – T2 Electolytes – T3 Anode – T4 Cathode - T5 |  |
| Why is the colour blue calming? | Cooling effect – T1 Reduced anxiety - T2 |  |
| Does using emojis make people happy? | Yeah makes happy – T1  Yeah makes sad - T2 |  |
| Can I solve the problem of my grandfather finding his way to the bathroom at night without turning on a light? | Using nightlights  Assisstive devices  Motion-activated lights | Do Nightlights show clear path to bathroom If he uses it. Does Assistive device show clear path to bathroom If he uses it. Does Motion-activated light show clear path to bathroom If he uses it. |
| Does eating school lunch affect how alert people are in their afternoon classes? | Eating more can show impact on afternoon sleep – T1 Eating less can show impact on afternoon sleep - T2 |  |
| Does having plants in a house reduce the carbon dioxide level in the house? | Yeah Plants can reduce CO2 - T1 |  |
| Can I create a backpack/umbrella combination? | Yeah he/ she can create backpack/umbrella - T1 |  |
| Why am I awesome? | Good Character - T1 Good Face - T2 Good Intelligent - T3 | If he/ she is good at character, then make it testable If he/she has good face, then he/she is awesome If he/ she is intelligent, the he/she is teatable |
| Why are Reese’s Cups so good? | Reese’s cups are tasty – T1 Reese’s cups are packed good – T2 Reese’s cups are healthy - T3 |  |
| Why is our galaxy moving? | Rotation within local groups – T1 EXpansion of the universe – T2 Gravitational Interactions -T3 |  |
| 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? |