**🔬 How to Test Your Graphene Sample**

**Welcome to the Athena-V Material Demo Card**

Your card contains a real graphene or graphene oxide sample. Let’s walk you through how to interact with it.

**⚡ What’s on Your Card**

* **Interdigital Electrodes** (Touch to Test): Conductive traces—test continuity with a multimeter or simple LED setup.
* **GO Sample Zone** (“Architecting Ignition”): This is your raw graphene oxide. Handle gently—encapsulated with shrink wrap for protection.

**🧪 Test 1: Conductivity**

**Tools**: Multimeter or battery + LED + resistor

**Steps**:

1. Touch your probes or wires to both ends of the black trace pattern.
2. You should see **~1–10kΩ resistance** depending on doping, humidity, and pressure.
3. For LED: wire in series with resistor and see if it lights with 3–5V.

**💧 Test 2: Water Dispersion (GO only)**

*Only do this if you’re done with the card.*

1. Cut open the encapsulated GO area.
2. Add a drop of water to the powder in a dish.
3. Stir gently — GO should disperse evenly (a cloudy blackish liquid).

**⚠️ Caution**

* Not food safe. Do not ingest.
* Avoid prolonged skin contact with the raw sample.
* For educational/demo use only.