**Choose an object from your environment (e.g., a cup, laptop, car, T-shirt, etc.) and try to test it. Explain why you chose a particular test.**

**Object:** Glass candle holder

**Test:**  Heat resistance and stability

**Reason:** I chose to test the heat resistance and stability of a glass candle holder because these are critical factors to ensure safety when using it with a lit candle. Glass candle holders can become hot during use, and it's essential to verify that they can handle the heat without breaking and that they remain stable.

Heat resistance test

The objective is to determine if the holder can resist the heat generated by a burning candle without cracking.

1. Place the glass candle holder on a heat-resistant surface.
2. Insert a lit candle into the holder and burn it for 4 hours.
3. Observe any signs of cracking or other changes.
4. Allow the glass to cool before any other examination.

Conclusion: After the cooling, there were no visible damage, cracks, or changes. The heat resistance test was successful.

Stability test

The objective is to ensure the candle holder is stable and does not tip over when holding a lit candle.

1. Place the glass candle holder on a flat surface.
2. Insert a lit candle into the holder.
3. Apply gentle pressure to the sides of the holder to simulate movements.
4. Observe whether the holder remains stable.

Conclusion: The candle holder remained stable during the use, preventing accidents. The stability test was successful.

**Explain the definition of validation and verification in your own words.**

The verification is checking if a product meets some specified requirements and fulfills its intended purpose.

Validation is evaluating a product to determine if it meets the specified requirements and addresses the user's expectations.