

Experiment Shopping List

Time Travel Experiment Shopping List

1. ****Microwave Generator****

- Frequency Range: 10 GHz to 30 GHz
- Wavelength: 0.01 m (1 cm)
- Power Output: Adjustable, minimum 1 W

2. ****Waveguide****

- Compatible with microwave wavelengths
- Material: Aluminum or Copper

3. ****Microwave Antennas****

- High-precision directional antennas for emission and detection

4. ****Frequency Meter****

- Range: 1 GHz to 40 GHz
- Accuracy: ± 1 MHz

5. ****High-Precision Detectors****

- Photon detectors sensitive to microwave wavelengths

6. ****Cavity Resonators****

- Size: Tuned for 1 cm wavelengths
- Application: Controlling microwave photon emissions

7. **Oscilloscope**

- Frequency Range: Up to 50 GHz
- Features: Time and frequency domain analysis

8. **Power Supply**

- Voltage: 0-50 V adjustable
- Current: 0-5 A adjustable

9. **Vacuum Chamber**

- For creating controlled environments
- Size: Medium, with airtight seals

10. **Materials for Gravitational Studies**

- Lead weights or dense materials for gravitational experiments
- Mass range: 10 kg to 50 kg

11. **Temperature Sensors**

- Range: -50°C to 500°C
- For monitoring heat energy experiments

12. **Chemicals for Energy Experiments**

- Sodium bicarbonate
- Acetic acid (vinegar)
- Hydrogen peroxide
- Copper sulfate solution

13. **Tools and Accessories**

- Heat-resistant gloves
- Insulated wires and connectors
- Screwdrivers and wrenches
- Multimeter

14. **Data Logging Equipment**

- Computer interface for real-time data logging and analysis
- Software: Python or MATLAB-compatible tools

15. **Safety Equipment**

- Safety goggles
- Fire extinguisher
- First aid kit

Estimated Budget: Ensure to check local suppliers for availability and pricing.