Comparing Door Sweep Models

Objective

To compare different door sweep models and determine which one best prevents air drafts.

Vocabulary

- **Door Sweep**: A device attached to the bottom of a door to prevent drafts, dust, insects, and water from entering a room.
- **Draft**: A current of air flowing through a room, typically due to an open or poorly sealed door or window.
- **Insulation**: Material used to prevent the passage of heat, sound, or electricity.

Materials

- Various door sweep models (e.g., rubber, vinyl, bristle)
- Measuring tape
- Thermometer
- Small fan
- Door for testing

Procedure

1. **Setup**: Attach each door sweep model to the bottom of the door, one at a time.
2. **Measure Baseline**: Record the room temperature near the door with no door sweep.
3. **Test Draft Prevention**:
    - Place the fan outside the door to simulate a draft.
    - Close the door and measure the temperature inside the room.
    - Record any temperature changes.
4. **Repeat**: Repeat the steps for each door sweep model.
5. **Data Collection**: Use the chart below to record your findings.

Data Collection Chart

Door Sweep Model	Baseline Temperature (°C)	Temperature with Fan (°C)	Temperature Change (°C)
Rubber			
Vinyl			
Bristle			

Conclusion

Write a paragraph summarizing which door sweep model was most effective in preventing drafts and why. Consider the temperature changes and discuss the model's material and design features.