

## PARTICULATE LAB

**Purpose:**

1. to measure the different types and amount of particulate matter in the troposphere
2. to relate particulate matter to air pollution
3. to look at relationships between height and location with amount and type of particulate matter.

**Materials:**

**Procedure:**

**Data (class):**

Location:

Height:

Duration:

Particles per cm<sup>2</sup>

Type of particles:

Size of particles (micrometers): width X length

Possible Particulate types:

Lint	Plant Fiber	Charate
Chalk Dust	Clay Dust	Sawdust
Rock Dust	Rubber Particles	Pollen
Fungus Spores	Cigarette Ash	Furniture Dust
Animal Hair/Fur	Salt	

**Data Analysis:**

Graph

- A. Location vs. Amount of Particulate
- B. Location vs. Particulate Type
- C. Height vs. Amount of Particulate
- D. Height vs. Particulate Type

Interpretation

**Conclusion:**

1. List 4 different types of particulate matter that were collected. For these particulates, what are possible sources and health effects on humans?
2. Describe a possible explanation for the trends in the data: location & height.
3. Were you surprised about the amount of particulate matter in the troposphere? Explain.