

# Gathering and measuring particulates

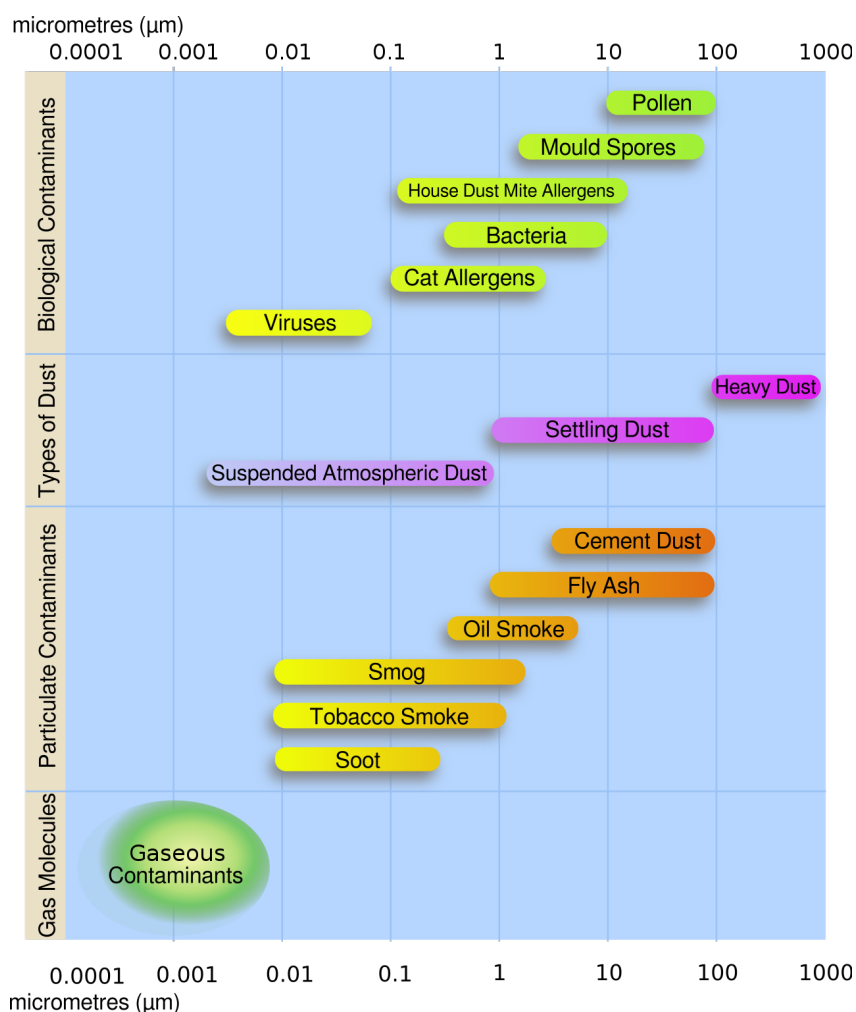
## Task 1:

Work in pairs to order these units in terms of decreasing size:  
(i.e. Largest first)

Microns (micrometres)	
Centimetres	
Nanometres	
Metres	
Millimetres	

## Task 2: Particulate Sizes

Work in small groups to explain what the graph shows.



By Jisaac9, Mieszko the first - This file was derived from: Airborne-particulate-size-chart.jpg., CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=86896879>

Write down your thoughts here:

**Task 3: Particulate Sizes**

Work in small groups to explain what the graph shows.

1. What conclusions can be drawn?

2. What are the advantages and limitations of this measurement technique?

3. What further evidence can be gathered?

#### **Task 4: Gathering Particulates**

Particulates can also be gathered using adhesive pads, hung up in various areas and left for several days.

Particulates in the air become attached to the pads. The pads are then removed and examined using a microscope to explore the level of particulate pollution in that location.

Think about the following questions and write your thoughts in the boxes:

1. Do you think this technique would produce useful data?

2. Compare this technique with the swab tests.

3. Why might researchers want to use both procedures?