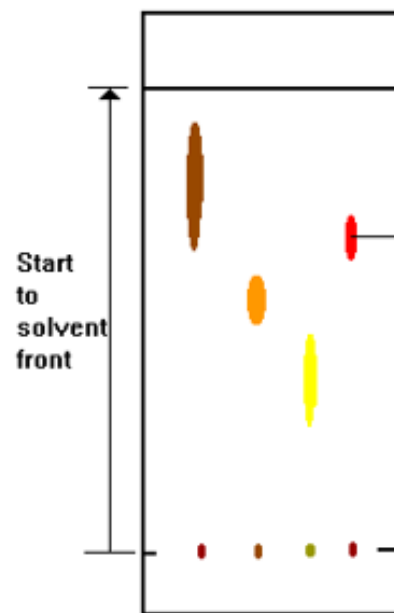


## Key ideas: Chemical analysis

1. What is a pure substance in science terms?
2. What is a mixture?
3. How can you distinguish between a pure substance and a mixture?
4. What is a formulation?
5. Examples of a formulation?



Calculate the  $R_f$  values of each spot using a ruler

- 1:
- 2:
- 3:
- 4:

What chromatography be used for?

Complete the table to summarise the tests for each gas:

	Test for the gas
Hydrogen $H_2$	
Oxygen $O_2$	
Carbon dioxide $CO_2$	
Chlorine $Cl_2$	

### Chromatography

1. Draw a labelled diagram to show how you would set up a paper chromatography experiment
  
2. Complete these sentences about chromatography:
  - The \_\_\_\_\_ phase doesn't move
  - The \_\_\_\_\_ phase does move
  - In paper chromatography, the \_\_\_\_\_ is the stationary phase and the \_\_\_\_\_ is the mobile phase
  
3. How do you calculate  $R_f$  values?