





# **Chromatography in Real Life**

Chromatography is used in many different industries and labs. The police and other investigators use chromatography to identify clues at a \_\_\_\_\_\_\_like blood, ink, or drugs. More accurate chromatography in combination with expensive equipment is used to make sure a food company's processes are working correctly and they are creating the right product. This type of chromatography works the same way as regular chromatography, but a scanner system in conjunction with a computer can be used to identify the different chemicals and their amounts.

#### **Chromatography in Real Life**

Chemists use chromatography in labs to track the progress of a reaction. By looking at the sample spots on the chromatography plate, they can easily find out when the products start to form and when the reactants have been used up (i.e., when the reaction is complete). Chemists and biologists also use chromatography to identify the \_\_\_\_\_\_ present in a sample, such as plants.

Paper Chromatography	
How does it work?	
The	_ (solvent) is the mobile phase of the
chromatography system.	
The	is stationary phase. Chromatography
works by	

## Paper Chromatography

How does it work ? *(continued)*The attraction of the water to the paper
(\_\_\_\_\_\_force) is larger than the attraction of the
water to itself (\_\_\_\_\_\_force); hence, the water

moves up the paper. The ink will also be attracted to the paper, to itself, and to the water differently, and thus a different component will move a different distance depending upon the strength of attraction to each of these objects.

## **Pre-lab Vocabulary**

#### **Capillary Action**

ability of a liquid to flow in \_\_\_\_

without the assistance of an external force (like a pump) and in opposition to









