

# Metal Ion Chromatography Worksheet

## Data Table

Sample	Color of Spot(s) (after development)	Solvent Line Distance	Distance of Spot(s)	$R_f$ Value
Copper				
Cobalt				
Nickel				
Unknown				

## Post-Lab Questions

- Based on the information in the data table, which ions are present in the unknown? Explain your reasoning.
- Why is a pencil used to draw a line on the chromatography paper rather than a pen?
- Why is it necessary to keep the solvent level in the beaker below the spots marked on the chromatography paper?
- The solvent rises in the paper by capillary action. What is capillary action? What are some examples of capillary action in nature?