

## Meadowhead School - BTEC L3 Applied Science 2023 Chromatography

### Task:

- **Research the different types of chromatography used by scientists today. Compare and contrast paper chromatography and thin layer chromatography and for each one describe the advantages and disadvantages they have.**
- **Find out the differences between paper chromatography and thin layer chromatography.**
- **Paper Chromatography**  
<https://www.chemguide.co.uk/analysis/chromatography/paper.html#top>
- **Thin layer Chromatography**  
<https://www.chemguide.co.uk/analysis/chromatography/thinlayer.html>
- **Comparison**  
<https://biologyreader.com/difference-between-paper-and-thin-layer-chromatography.html>

Grade criteria	Evidence	Achieved
<b>Pass</b> Describe how to carry out thin layer chromatography Describe how to carry out paper chromatography	A detailed method for each technique. You will have to look up a method for each of these techniques. Make sure you include a references section at the end of your report.  Diagrams should be included to support your descriptions.	
<b>Merit</b> Explain in detail how paper chromatography and thin layer chromatography separate mixtures	Explain in detail how paper chromatography and thin layer chromatography separate mixtures. The links above will help you. Do not just copy and paste information though. It must be in your own words.  Diagrams should be included to support your explanation.	
<b>Distinction</b> Evaluate the similarities and differences between paper chromatography and thin layer chromatography	State clearly the <b>differences</b> between paper chromatography and thin layer chromatography.  Compare and contrast both types and for each one describe the advantages and disadvantages they have.  Diagrams should be included to support evaluation.	