

# BTEC Applied Science Extended Certificate – summer work 2018

---

**These tasks will help to bridge the gap between the knowledge required at GCSE and that required at level 3 BTEC. You will need to carry out some research to enable you to complete these tasks. The work will need to be handed in at the beginning of year 12.**

## **You must**

- Research and briefly describe;
  - 3 types of chromatography.
  - 3 methods of measuring temperature (types of thermometer).
  - 2 methods of measuring pH.

## **You should**

- State the main advantages and disadvantages of each of the method you have described.

## **You could**

- Explain how thin layer chromatography works.
- When a substance cools and changes from a liquid to a solid the behaviour of the particles change. Describe what happens to the particles in a substance;
  - As the liquid cools.
  - As the liquid changes to a solid.
  - As the solid cools.
- Acids have a low pH and alkalis have a high pH. Explain what causes pH.