

Name: _____

My mark: _____/8

Teacher Mark: _____/8

Flaming Salts

Observe a variety of salts on fire. They will be displaying different wavelengths on the visible light spectrum.

1) Answer the following questions of your choice of THREE different metals contained in the salts. Be sure they display different colours. Use the textbook on page 170 to help. (6 marks)

Metal	Colour observed	Energy (high/low/medium)	Frequency (high/low/medium)	Wavelength (estimate in nanometers)

2) Explain, using the terms *energy* and *electrons* how it is possible to a salt to display different colours of visible light (2 marks).

3) Describe the difference of looking at a white light through a spectroscope from looking at a coloured flame through a spectroscope. Why does this happen? (2 marks)
