***The expansion of the universe*** Planning ahead and equipment list

Equipment needed per student:

* video question sheet (1 page)
* spectral analysis student worksheet (4 pages)

## Investigation 1: Modelling the expanding universe

Equipment needed per group:

* marker pen
* wide elastic band, cut and opened out to give a 16 cm minimum length
* ruler or tape measure
* spring or C-clamp

## Investigation 2: Spectral analysis

Equipment needed per student:

* spectral analysis student worksheet pages – 1, 2 and 4
* calculator

## Investigation 3: Analysing galactic spectra

Equipment needed per student:

* spectral analysis student worksheet pages – 2, 3 and 4
* calculator