# *Back and forth* Planning and equipment list

### Planning ahead

If time is short, teachers may want to complete the initial setup portion of this activity. Pre-cut the strings and attach the washers to the strings. Each group should have one single-washer pendulum, one double-washer pendulum and one triple-washer pendulum.

### Equipment needed for teacher demonstration

* ¼ sheet of A4 paper
* 6 steel washers
* a metre ruler or small tape measure
* 3 pieces of string, 60 cm long
* a stopwatch
* masking tape
* a marker pen
* scissors
* a protractor/geoliner

### Equipment needed per group

* ¼ sheet of A4 paper
* 6 steel washers
* a metre ruler or small tape measure
* 3 pieces of string, 60 cm long
* a stopwatch
* masking tape
* a marker pen
* scissors
* a protractor/geoliner
* [the student investigation worksheet](http://assist.asta.edu.au/sites/assist.asta.edu.au/files/Yr%2010_Back%20and%20forth_Student%20investigation%20worksheet_FINAL.docx)

### Equipment needed per student

Student worksheets from the following website:

* Returning tin’ worksheet, Science ASSIST website <http://assist.asta.edu.au/resource/484/returning-tin>