Nanotech for waterproofing (preparation details for teachers and technicians)

TO BUY

**Aluminium foil:** Any foil can be used, purchased simply from a supermarket

**Dried Lotus leaves:** These are inexpensive to buy from Chinese supermarkets, and are best bought whole. They can also be found from suppliers on the web, for example, from sous chef: [http://www.souschef.co.uk/lotus-leaves.html?origin=product-search&kwd=&source=pla&gclid=CjwKEAjw7J3KBRCxv93Q3KSukXQSJADzFzVS2ik54jx5y2gsCfYGkoJQPjZqAyOyUEeigSHuzyGFeBoC5gzw_wcB](http://www.souschef.co.uk/lotus-leaves.html?origin=product-search&kwd=&source=pla&gclid=CjwKEAjw7J3KBRCxv93Q3KSukXQSJADzFzVS2ik54jx5y2gsCfYGkoJQPjZqAyOyUEeigSHuzyGFeBoC5gzw_wcB) It is possible to buy ~25 leaves for £5, and each leaf can be cut into ~30 pieces.

TO PREPARE IN ADVANCE

It is nice for the class to see the lotus leaves whole, but it is worth cutting most of them up into pieces ~ 6 x 6 cm, for the students to use, one for each pair.

Cut foil sheets into squares of ~ 6 x 6 cm, one for each pair of students.

STUDENTS WILL NEED

- Plastic Pasteur pipette
- Paper
- Lotus leaf
- Aluminium foil
- Tap water (~ 1-2 mL each) (perhaps provide a beaker for each pair)