

# Industrial Polymer Resins Ltd.

Consett  
County Durham

Dear Research Group,

We produce special inks for chocolate-makers, who use them to print the names of sweets on the wrappers. We also make the glue for sticking the wrappers together. We have found that the best starting ingredient for the ink and glue is a liquid from trees. Unfortunately, our new recipe is causing us problems. It makes a very thick liquid that does not flow easily through our pipes. It is also very hard to stir, and we need a lot of electricity to run our stirring machines. This is very expensive!

We understand that your research group is investigating liquids, and would be pleased if you could suggest ways we can solve this problem. We need as much data as you can provide, including any measurements you make of runniness of different sorts of liquid. Any suggestions you can give us, which will make our liquid flow more easily, would help us very much.

We look forward to hearing from you in the near future.



J. Wellington  
Managing Director

# Activity Sheet 2: Concept Map



## What do we know about liquids and solids?

pour

cold

smooth

shape

flow

wet

**LIQUIDS**

**SOLIDS**

dry

dissolve

soft

hard

rough

heat

melt

## Activity Sheet 3: Sorting our liquids



1. Cut out the bottle shapes.
2. Write the name of each liquid on a bottle label.
3. Stick them onto a strip of card in order of runniness.

