

# MIXTURES OF MATERIALS

## QUIZ TIME

1. DISSOLVE means:
  - a. to solve a science problem
  - b. to disappear and go into solution
  - c. to melt
  
2. A SOLUTION is:
  - a. a mixture of lots of different materials
  - b. a gas and a solid mixed together
  - c. a liquid with a solid dissolved in it
  
3. If a solid is SOLUBLE it will:
  - a. attract a magnet
  - b. dissolve in a liquid
  - c. hurt when you drop it on your toe
  
4. If a solid is INSOLUBLE it will:
  - a. not dissolve in a liquid
  - b. be very flexible
  - c. be invisible

Did you know that: SOME SOLIDS DISSOLVE IN WATER TO GIVE SOLUTIONS BUT SOME DO NOT ?

Well, they do and this is what you need to remember from today's science work.

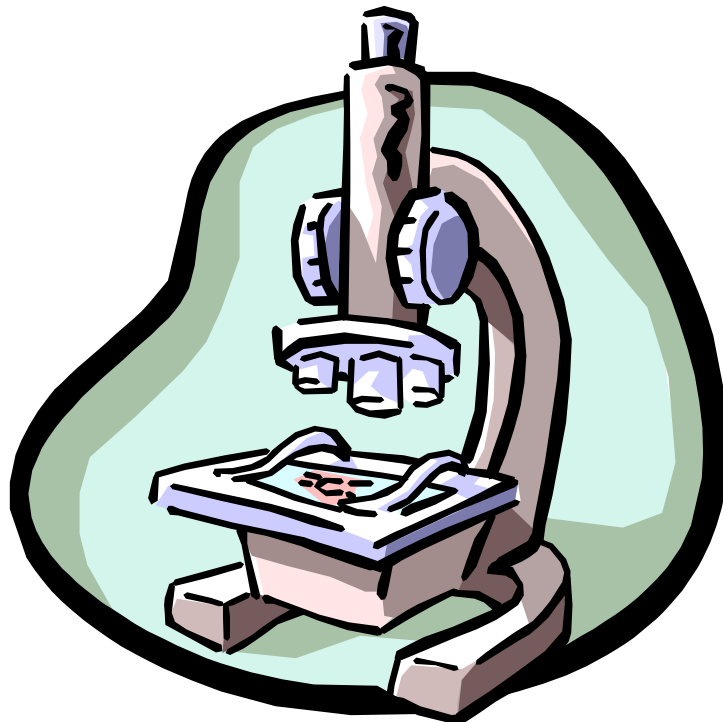
You also need to understand what these words mean: DISSOLVE, SOLUTION, SOLUBLE and INSOLUBLE.

Copy out what these 4 words mean into your science books, you will need to remember them.

DISSOLVE SOLUTION  
SOLUBLE INSOLUBLE

## YOUR TASK

1. Predict whether salt, sand and sugar will dissolve in water.  
(I think that \_\_\_\_\_ will/will not dissolve in water).
2. Test to see if you were right. Your test or experiment must be FAIR. Before you start you must discuss, then write down at least 3 things you are going to do to make sure the test is fair. (To make our test fair we will . . .)
3. Draw a labelled diagram to show what you used in your test. The diagram must be done in pencil and the labels in pen.
4. Write down you results (what happened) for each solid. (The \_\_\_\_\_ dissolved/did not dissolve in water).
5. Write your conclusion (what you found out). (I found out that . . .).



### Brain teasing questions

1. What is the name of the solid that is dissolved in sea water ?
2. What 2 things can be done to make a solid dissolve more quickly ?
3. What is sand made of ?
4. Can you name any uses of sugar solutions ?
5. Can you name any uses of salt solutions ?