

5. Osman wants to find out whether the substances in Figure 2 can dissolve in water.

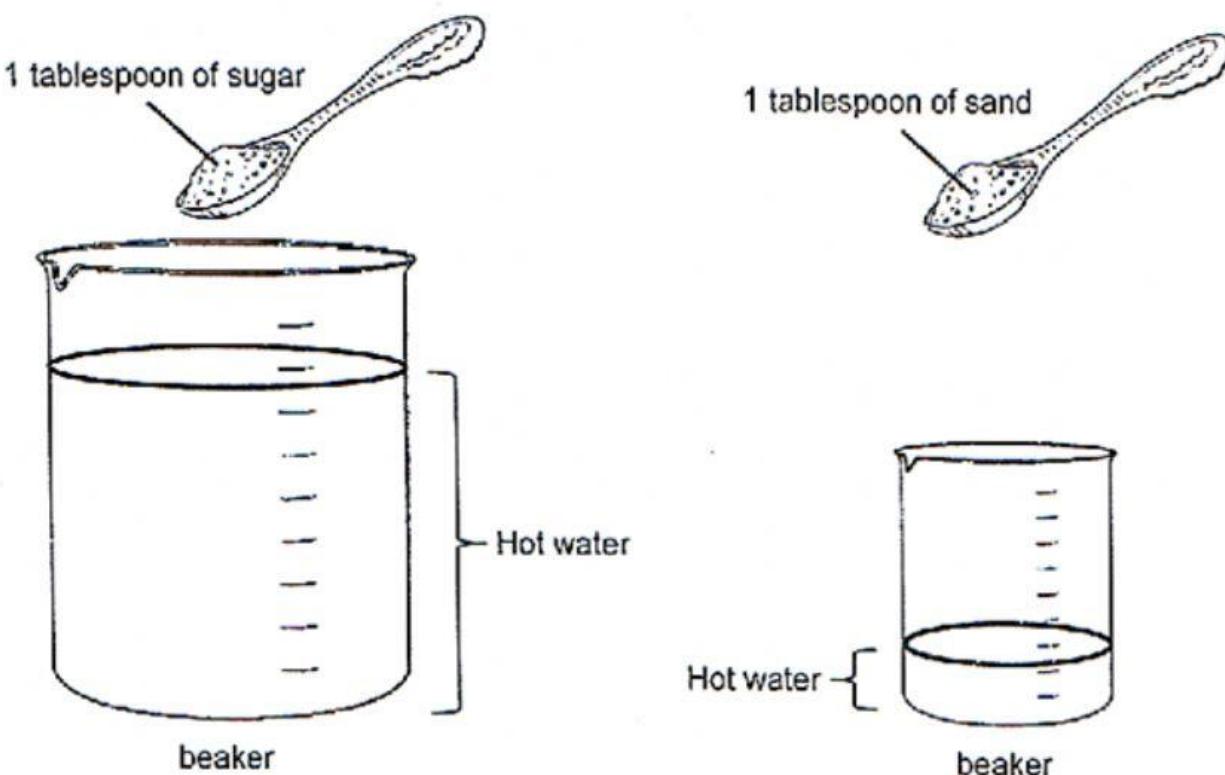


Figure 2

Study the experiment in Figure 2.

**Insoluble / Not soluble**

- (a) When a substance can dissolve in water, it is Soluble. [1 mark]
- (b) Which substance in Figure 2 will:  
(i) dissolve in water? Sugar Sand [1 mark]  
(ii) not dissolve in water? Sugar Sand [1 mark]
- (c) Osman's experiment is **not** a fair test because some things in the experiment are not kept the same. List two things that should stay the same to have correct and fair results.  
**The size of the beaker must be different.**  
(i) The size of the beaker must be the same.  
**The volume/amount of water in both beaker must be the same.**  
(ii) The volume/amount of water in both beaker must be different.

[2 marks]