

**Case 1: Hypothetic but Usual Case: SOLAR ECLIPSE (Related to Chapter 2: Hint: Microbial attack)**

A student of class VIII told that her Grandmother advised her to drop some neem and Tulsi leaves in their bathing water reservoir on the day of Solar Eclipse. She also told it is better not to take any cooked food during the occurrence of the Solar Eclipse. Now the student told these advises of her Grandmother are just ancient mythical superstitions... but her Grandfather who is a Science Teacher told the student that some scientific reason are playing role behind these advices.

1. What may be the scientific reason for dropping neem and tulsi leaves in the bathing water reservoir?
2. Why one should try not to take cooked food during the occurrence of the Eclipse.
3. What type of food can be taken during that time if somebody is having any case of food emergency like for taking post meal medicine etc.?



**Case 2: Incidental Case: RED FIRE BUCKETS**

Ritam visited a petrol pump with his mother to fetch petrol for their scooter. He saw there Red Coloured Buckets filled with sand and written 'FIRE' on the bucket are hanging by hooks from a stand. Being curious he asked the pump attendant what are those sand-filled buckets for. The pump attendant told that those are used to put off fire in case of any fire accident.

1. Why are sand filled buckets kept at petrol pumps? (Direct from paragraph)
2. How and why sand can be used to put off fire? (Conceptual)
3. Why water is not advisable in case of petrol caused fire? (Conceptual)
4. Why the colours of the Fire Extinguishing buckets painted as red? (Conceptual)

