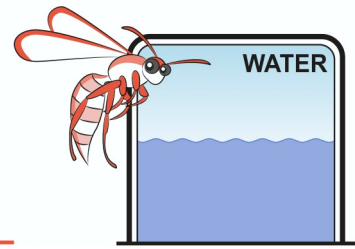
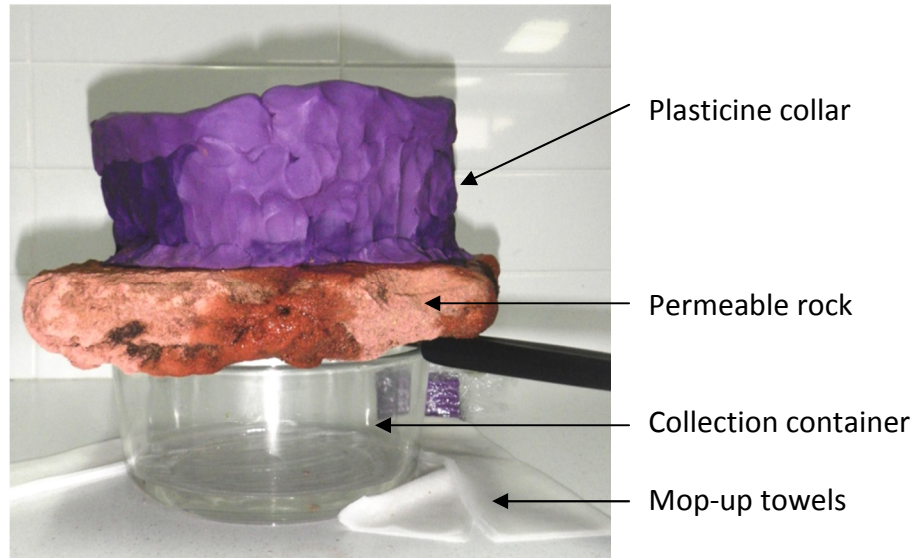


## Filtering With Rock - Student Activity



Early settlers in Australia would sometimes carve out a hollow in a permeable rock (a rock with spaces between their grains). Dirty water would be poured into the hollowed top and later clear water would be collected below. It would have to be boiled before drinking.



Materials needed per student or group

- A flat piece of permeable rock.
- Some plasticine or clay.
- A container of the dirty water and another container to collect the clear water.
- A measuring cylinder or cup (250mL)
- Mop-up towels, rags or newspaper
- A clock or timer

1. Form an impermeable collar with clay or plasticine and press well to seal onto the rock.
2. Place this on top of the collection container.
3. Slowly pour a little of the dirty water into the clay collar.
4. Check for leaks and stop them with little bits of clay or plasticine.
5. Be prepared to mop up any water that moves sideways through the porous rock and seeps outside the collection container.
6. Find how long it takes to collect 10mL of water



Why does the water have to be boiled before you drink it? \_\_\_\_\_

\_\_\_\_\_

How long would it take to collect enough water to make 1 cup (250mL) of tea?

\_\_\_\_\_