

MR GYLBY'S CLEAN EXPERIMENTS



COLD AND WARM WATER

you will need:

- ▶ 5 bottles ▶ sand ▶ salt ▶ sugar
- ▶ cocoa powder ▶ washing-up liquid

how to do it:

- 1 Fill each of the bottles about one third with cold water.
- 2 **Pour** half a teaspoon of each **ingredient** into bottles 1 to 5 (each in a different bottle).
- 3 Wait a few minutes. Watch how well and how quickly the ingredients **dissolve** in the water.
- 4 Which ingredient mixes with the water?
- 5 Close the bottles and **give** each a good hard **shake**.
- 6 Put the bottles back down and watch what happens to the ingredients.
- 7 Pour out the water in the **sink** and **rinse** the bottle. Then fill them about one-third full with hot water from the **tap**.
- 8 Pour the sand, salt, sugar, cocoa and washing-up liquid each into a different bottle.
- 9 How do the ingredients dissolve in the warm water?
- 10 What happens when you shake the bottles?



DIRTY SHAKE EXPERIMENT

you will need:

- ▶ 5 bottles ▶ cooking oil ▶ soap
- ▶ shampoo ▶ bubble bath ▶ soap powder

here's how it works:

- 1 Fill the bottles one third full with water and
- 2 add a few drops of cooking oil. With the oil you make the water "dirty".
- 3 Close the bottles and shake each one to **distribute** the oil. Put them back down and watch what happens.
- 4 Open the bottles and add a few drops of soap, shampoo, bubble bath, and soap powder into bottles 1 to 4 (each into different bottles).
- 5 Close the bottles and shake them again.

What do you **observe** now? How do the contents **differ** from the 5th bottle?

These and more experiments can be found here:

www.chemieexperimente.de



cooking oil	Speiseöl
bubble bath	Schaumbad
soap powder	Waschpulver
distribute	verteilen
observe	beobachten
differ	sich unterscheiden