# SUB UNIT 1:

## Activity 1.4

To carry out an experiment, you need laboratory equipment, of course. Have a look in your book again and copy some of the equipment you find there in your detective investigation book. Think about the different functions of the tools you have found and write them down next to each tool.

Piece of equipment: functions of piece of equipment:

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Every experiment is related to a question again, such as:

* Can I burn the substance?
* Is the substance soluble in water?
* …

Think about more questions in your detective team and write them down in your book.

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Chemists often also use other substances to test what they have found; they call some of them indicators. Maybe you can use them as well in your school?

Show your ideas to your teacher to see which experiments you can actually carry out without any danger for yourself and others, because this is always rule No1 for every chemist!

Now take your white substances which you have found in your household and carry out the experiments you have decided on with your teacher.



As a good scientific detective, you have to document what you have done in a good way, of course, to make sure that you can tell your results in a convincing way to others later on. How would you design such a good documentation? Make a suggestion in your detective team and discuss it with other detective teams on a detective conference!

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Are you now ready to carry out your experiments? Check all the safety measures again, collect the material you need, talk to the teacher once more and then start! No, stop, think about what you have to consider for being able to compare the different white substances before you start! The following questions might help you to do so:

* Can you just take any amount of a substance to test the burning or to test the solubility, for example?
* Can you just take water from the tab without controlling anything to test solubility?
* …

Okay, now you can start! And don’t forget to observe carefully and to document everything as a real scientist detective!

