

THE EXPERIMENTALIST

Mozambique January 07/2010

The Science and Technology Magazine

Volume I Nº 1



Editorial

In this magazine we hope to bring you practical scientific and technological information useful for schools and communities in the rural Districts of Mozambique. And for towns and cities as well of course, but with the accent on the rural areas. President Guebuza has said that the District should be the pole of development.

Our schools rarely do science experiments; as a result pupils do not understand real science. And communities do not know how to make use of the many technologies that could improve their lives.

Most of these people – men, women, students, young people, teachers – are poor and have no access to the

expensive materials that are usually used for science teaching. All too often there are not even any scissors in the school, nor water pumps in the village.

So the solutions that we offer in this magazine need only easy-to-get resources. We present a range of practical experiments, especially in the area of Physics, which are normally particularly difficult to do. We also have a section on aspects of modern science and technology.

We have called the magazine 'The Experimentalist' because the material is based on the research and experiments of the 'Grupo Faísca' (the 'Spark Group') based in KaTembe, in the Province of Maputo.



The Space Shuttle



Model of a Persian Wheel

Technology Section:
Methods of raising water

Community Section:
Zeer Pots

World Technology:
The International Space Station

Construction Section:
How to make a weighing balance from a straw