



# Development of Simple Aids to Teach Science

65. Moshomo



Adelqueen Shayo, Rehema Akwilombe and Macrine Kishe

## Introduction:

After roaming and listen to different school / students, we find that there is a great problem of teaching science subjects, e.g. Biology. This makes the subject to be very difficult to both teachers and students. By using the knowledge of mashed paper we come out with the molding of modals for teaching science subjects.

Teaching aid improvisation project aim at providing different items in schools for teaching different topics in different subjects in schools.

Again this project will help in improving the hidden talents in our students; so if they are enabled, they will become good scientist and they will be able to modify our new World.

## OBJECTIVES.

To enable science to be understood easily

To reduce the expenses of buying industrialized modals

To enhance understanding



## CHARACTERISTICS

Modals which can be made , can be in different categories according to the nature of the subject.

Example is the modals concerning the Biology subject in Tanzania school are all structures in the Human body. Skull, Eye, Kidney, Types of bones, Different organisms from different areas/habitat. Example Tilapia fish, snake, frogs, flowers.

## CHARACTERISTICS OF TEACHING AID

Any teaching aid must show the following characteristics.

It should be large enough to be seen by the majority

It should show the real image of the structure intended.

Colour used should symbolize the real colour of the natural view of structure.

Never use red colour where it is not required.

Every teaching aid should show the title.

## CATEGORIES OF TEACHING AIDS

Teaching aids are categorized according to the nature material used

Drawing

Modal

## Results:

### DRAWINGS

These can be in posters, still pictures and drawings from books to manila sheets.

The drawings must be in all characteristics as mentioned before.

In our case, the projects aim at helping students and their teachers on how to draw good and quality drawings.

### MODALS FROM MASHED PAPERS

#### A.PREPARATION

First of all we collect used papers from different sources. Those papers are all washed to remove all impurities. All washed papers kept in a clean container with water for making them soft After one or two days, then soaked paper should mixed up by using hands( Apply the knowledge of preparing wheat flour for different domestic cooks) Let the soaked paper remain for one more days. Next day mix it with wheat flower to the viscosity you want. You can use half kilogram of wheat flour for half tin of mashed paper. Mix it thoroughly until there is no any mashed paper remain apart. The main purpose of using wheat flour is that, this is very soft and it will give good appearance of modals made. Secondly wheat flour is a good binder of paper so as to make easy to mould any modal you want. Thirdly it will make easy to attach any other material with the mashed paper when moulding. Example if you need some pieces of wood or wire, to make the structure firm to the viewer.

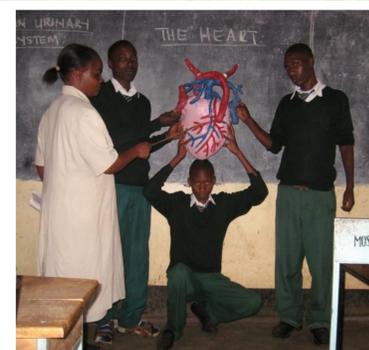
#### HOW TO MOULD.

Using hand , take the amount of the mixture using and start moulding the structure you want.

Make sure that you know clearly on the structure you want to mould.

Place the material on the clean surface a table or on the glass.

The glass is the most advisable due to the fact that it cannot absorb water from the mixture.



## CONCLUSION:

This idea aims at support the government in its Secondary School to inhance understanding in science subjects, especially Biology. Math.

The main problem is the machine to grind papers for molding modals. It is the time for the government and any other to support us to have the machine which cost 3,500,000/= (Three million only)

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## References:

•Teaching Aid Improvisation; Monduli Teachers College

## Further information:

Download at: [www.youngscientists.co.tz/posters](http://www.youngscientists.co.tz/posters)