**EDU355: EDUCATIONAL TECHNOLOGY GROUP 48 PRACTICAL**

**TOPIC:** Construction of world globe model, lines of longitude and latitude across the globe.

**PURPOSE OF THE MODEL [WORLD GLOBE].**

The purpose of constructing the model of world globe [earth], as instructional material related to the subject mathematics is to bring closer to the student the planet earth whose content cannot possibly be by the side of the students for illustration while teaching the topic, longitude and latitude.

The globe as a model of the earth before the students in the class, would enhance effective understanding of the topic longitude and latitude and latitude especially when treating sub-topic like the following:

1. Great and small circle
2. Distance along great and small cycle[latitude and longitude]
3. Distance along parallel of latitude
4. Great circle routes [equator and meridian].

For instance, to determine the position of point p and q whose position is on the same latitude lies on different longitude in a different region, the teacher can easily point out using the model and students would understand the concept more better.

**AIMS OF THE MODEL:**

The world globe is aim at easing the work of teaching in the class while teaching

It also make students to understand faster what the teacher is teaching.

**ABOUT THE DESIGN:**

The model of world globe is constructed using the following:

1. Quarter iron rode is use for construction of lines of longitude and latitude
2. 16mm iron pan and 12mm rode is use for base seating and hanger
3. Nut, bolt and Boris are used to enable rotation of the globe.

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