PHILIPPINE NORMAL UNIVERSITY
The National Center for Teacher Education

LABORATORY ACTIVITIES FOR THE ENHANCEMENT OF SCIENCE PROCESS SKILLS OF JUNIOR HIGH SCHOOL STUDENTS

A THESIS Presented to the
Faculty of Graduate Studies and Teacher Education Research
Philippine Normal University
Mindanao

In Partial Fulfillment of the
Requirements for the Degree
MASTER OF ARTS IN EDUCATION
with Specialization in Science Education

ANN JHONA B. DE LA MENTE
April 2017

PHILIPPINE NORMAL UNIVERSITY
The National Center for Teacher Education

ABSTRACT

Keywords: SCIENCE PROCESS SKILLS, LABORATORY ACTIVITIES

The study investigates the level of mastery of the Science Process Skills of the Junior High School Students of Bayugan National Comprehensive High School (BNCHS). These skills are classifying, communicating, inferring, measuring, observing, predicting, controlling variables, data interpreting, experimentation, and hypothesizing. The study utilized the descriptive status and developmental method in data gathering using the researcher - made assessment tool. The assessment tool was manipulative activities designed to draw out the science process skills on mastery level of the Junior High School of BNCHS. The respondents were asked to demonstrate the laboratory activities of the three different stations and interview was also conducted after every station. The study revealed that out of 10 process skills, 2 are the least mastered skills (measuring mass and controlling variables). It is concluded that the low level in science process skills can be improved if the science teachers will use diverse way of learning to inculcate the concepts of science, and the developed laboratory activities can be a great help to enhance the least mastered skills.

PHILIPPINE NORMAL UNIVERSITY
The National Center for Teacher Education

ABSTRAK

Mga Susing Salita: SCIENCE PROCESS SKILLS, LABORATORY ACTIVITIES

Ang pag –aaral na ito ay sumisiyasat sa antas ng kahasaan ng Science Process Skills ng mga mag-aaral sa Junior High School ng Pambansang Komprehensibong Paaralang Sekundarya ng Bayugan. Ang mga kasanayang binigyang diin ay ang mga sumusunod: pagkaklasipika (classifying); pakikipagtalastasan (communicating); paghihinuha (inferring); pagsusukat (measuring); pag-oobserba (observing); paghuhula (predicting); pagkokontrol ng mga baryabol (controlling variables); pag –iinterpreta ng datos (interpreting data); pag-eeksperimento (experimenting) at pagbubuo ng hipotesis (hypothesizing). Ang pananaliksik na ito ay gumagamit ng descriptive status at developmental method sa pangangalap ng datos gamit ang ginawang instrument ng mananaliksik. Ang instrumentong ginamit ay binubuo ng mga manipulatibong gawain na dinisenyo upang makuha ang antas ng kahasaan ng science process skills ng mga mag-aaral sa Junior High School ng BNCHS. Ang mga kalahok ay inatasang isagawa ang mga gawain sa tatlong istasyon na may magkakaibang gawaing panlaboratoryo na sinundan ng panayam matapos maisagawa ang mga gawain sa bawat istasyon. Ipinahiwatig ng pananaliksik na ito, na sa 10 science process skills, dalawa ang maituring na pinakadi-nahahasang kasanayan ng mga mag-aaral (pagsukat ng timbang at pagkontrol ng mga baryabols). Napag-alaman ng pananaliksik na ito na ang mababang antas ng science process skills ay mapapaunlad kung ang mga guro sa agham ay gagamit ng iba't ibang pamamaraan sa pagtuturo upang higit na mauunawaan ang mga konseptong agham at

ang binuo ng mananaliksik na mga gawaing panlaboratoryo ay may malaking maitutulong para paunlarin ang pinakadi-nahahasang mga kasanayan.