THE USE OF INTERACTIVE MULTIMEDIA TO ENHANCE STUDENTS' GENERIC SCIENCE SKILLS

LILIASARI IUE,BANDUNG

INTRODUCTION

- GLOBAL CHALLENGES

 — INCREASE
 COMPETITIVENESS
- DEVELOPMENT OF THINKING SKILL ——
 WIN THE COMPETITIVENESS
- LEARN SCIENCE _____ DEVELOPED
 THINKING SKILLS
- THINKING SCIENCE

 GENERIC
 SCIENCE SKILLS

SCIENCE AS THINKING VECHICLE

SCIENTIFIC PRINCIPLES:

- CONSISTENCY & UNIVERSAL FRAMEWORK
- PROSES TO GET KNOWLEDGE FROM PHENOMENA
- ALWAYS CHANGE
- ONLY AN APPROACH TO "ABSOLUTE"
- NOT VALUE FREE
- CANNOT DECIDED "TRUE" OR "FALSE"

SCIENTIFIC THINKING (GENERIC SCIENCE SKILLS)

- DIRECT AND INDIRECT OBSERVATION
- SENSE OF SCALE
- SYMBOLIC LANGUAGE
- LOGICAL SELF CONSISTENCY
- LOGICAL INFERENCE
- CAUSALITY
- MATHEMATICAL MODELLING
- CONCEPT FORMATION
- SPATIAL

METHOD

- R & D TO DEVELOP ICT BASED INSRUCTION (INTERACTIVE MULTIMEDIA)
- JUNIOR HIGH SCHOOL: BIOLOGY (ANIMAL REPRODUCTION)
- SENIOR HIGH SCHOOL : CHEMISTRY (MOLECULAR INTERACTION)
- INSTITUTE OF TEACHER TRAINING: PHYSICS (ELASTICITY)

TOPICS, CONCEPTS, AND GENERIC SCIENCE SKILLS RELATIONSHIP

TOPICS CONCEPTS		GENERIC SCIENCE SKILLS
Animal reproduction		Logical inference, causality,
		modelling, concepts formation, INDIRECT OBSERVATION

SUBJECT

- 44 THIRD GRADE STUDENTS OF JHS AT CIMAHI WEST JAVA
- 33 SECOND GRADE STUDENTS OF SHS AT LEMBANG WEST JAVA
- 35 FIRST GRADE STUDENTS OF INSTUTUTE OF TEACHER TRAINING AT MATARAM WEST NUSATENGGARA