Can Hierarchy of Learning based Instructional Design Enhance Speaking Skills among Secondary School Students?

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ABSTRACT

Education is a powerful weapon which has the solidity to carve out a potent society. The constraints imposed by current status of education plays major role in the way how childrenacquire skills. The studies conducted shows that school students lack speaking skills which putsa slur in their whole career. This paper attempts to explore the possibilities of improvingspeaking skills among students through a self made instructional design. The design is based on the Hierarchy of Learning Theory formulated by Robert M. Gagne. This theory states that thelearning process takes place through several stages and the device plan includes materialscorresponding to all these stages. The device plan prepared engages students for a month inlearning processandfinally evaluates the result of the result of a pre-test and a post-test conducted are compared quantitatively. The findings are drawn from the result of the comparison and analyzed thoroughly.

KEYWORDS :HierarchyofLearningTheory,InstructionalDesign,SpeakingSkills, SecondarySchoolStudents

INTRODUCTION

An action research is a systematic enquiry used to gather information about an event, process ormethod and attempts methods to correct, guide and evaluate certain aspects of them that areusually of cosmic importance. An individual action research involves working independently ona project and trying to find solution to certain problems with the help of the result derived from the study. The phases of action research include planning, acting, developing, and reflecting. Themain goal of action research is to enhance the standard of education. Teachers are the commonaction researchers. One of the common challenges faced by current system of education is the lack of communication skills. Among the four skills of language, speaking skill occupies theprominent position when it comes to communication. Speaking skills allow the learner to conveythe message in a passionate, appropriate and convincing manner. But the opportunities providedby the current educational system is less and that hampers their confidence in using the language.This paperexhibitsan action researchthat focuseson enhancing speaking skillsamongsecondary school students through a self made instructional design. Even in this twenty firstcentury, people are facing huge problems in speaking confidently in English. Several measurescan be taken to overcome such linguistic scenarios. One such measure is taken and evaluated inthisattempt.

The Hierarchy of Learning is the theory formulated by Robert M. Gagne to exhibit the stagesthrough which learning process takes place in humans. According to the theory, there are

eightstagesthroughwhich a childlearns. Thereareeightstagesthat startfrom signallearningandendswithproblemsolving.Achildcannotpasstothenextlevelwithoutacquiringthepreviouslevel. Thestagesarein theorder simpleto complex.

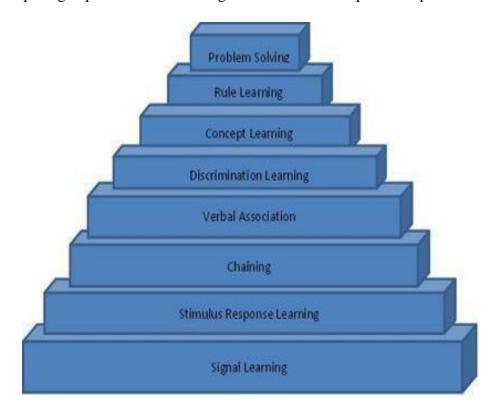


Figure1.Gagne's HierarchyofLearningTheory

STAGESINGAGNE'STHEORY

- **Signal Learning**-The student is conditioned to produce an expected response forstimulusthat maynot normally produce that response. E.g.:Understandsgestures
- Stimulus Response Learning-The learner learns to make a precise movement of themuscle in response to specific stimulus E.g.:Acknowledge for being appreciated
- Chaining-The student is conditioned to connect two or more already learnedstimulus-responserelationship into aconnected order.
 E.g.:puts jumbledwords together
- VerbalAssociation-Thestudentproduces associations throughverballinks.

E.g.:Translateswordsfromonelanguagetoanother

• **Discrimination Learning-**The student is capable of performing different responses to achain of identical stimuli.

E.g.:Discriminatesbetweenhomophones

- **Concept Learning-**The learner acquires a capacity to respond to stimuli that aclassofobject shares in common. E.g.:Understandsabstractconcepts
- **Rule Learning-**The acquiring of knowledge and understanding of a relationshipbetweenconcepts. E.g.:Understandsrelations
- **ProblemSolving-**Theapplicationofprinciplesthathavealreadylearned.

E.g.:Applyinganequation inaproblem

BACKGROUNDOFTHESTUDY

As a part of the B. Ed curriculum, the investigator had to go through teaching practice of 10weeks each during the third and fourth semesters respectively. During both the phases, theinvestigator noted the inhibition of students in speaking English. There were a total of 25students in IX F and the investigator decided to choose the 10 study.Majorityofthemfounditdifficultto backward students for the answerthequestionsinEnglish orexpresstheirideasinthesame. The reasons were different. The investigator identified it through observation which is followed by conversation with students. For the confirmation, an interview was conducted with the concerned English teacher in the school. Once the identified problem was confirmed, theinvestigator decided to focus on speaking skills and find a way to improve those skills of thestudents.

STATEMENTOFTHEPROBLEM

Thestudyistitledas"ANACTIONRESEARCHTOCHECKWHETHERIT ISPOSSIBLE

TOIMPROVESPEAKINGSKILLSAMONGSECONDARYSCHOOLSTUDENTS" with the

help of an instructional design based on Gagne's Hierarchy of Learning Theory.

DEFINITIONOFKEYTERMS

 $\underline{HierarchyofLearningTheory}:-It is a learning theory developed by Robert M. Gagnein which$

he divided the learning process in human beings into eight stages. Here the investigator tries to construct an instructional design based on this theory and apply it in a STD IX class in order to enhances peaking skills.

 $\underline{InstructionalDesign:} - It is the methodical development of instructional specifications by means$

oflearningandinstructionaltheorytoguaranteetheworthofinstruction.Heretheinstruction aldesignconstructed by theinvestigatorintends to improve hespeaking skills of students.

SpeakingSkills:-Thesearethe skillsthatgiveustheability to communicate effectively. That is,

conveyingamessageinaconvincingmanner.

Secondary SchoolStudents:- Studentswho are between13and16years of age. Thatis, VIII, IX

andX STD students

LIMITATIONSOFTHESTUDY

- The study is conducted in the secondary school students of a single school to talk about the whole secondary school students
- > Theanalysisis donebasedon theresultsdrawnfromasingle deviceplan
- > Thestudy is conducted in ashort smallspan of time.
- ➤ Thefocus is given to speaking skills only

REVIEWOFRELATEDLITERATURE

The study conducted in 2016 by Doan Linh Chi named as *Guidance for Learners' Improvementof Speaking Skills* says that the teacher must engage students in various group activities thatimprove their speaking skills and evaluate them frequently. His project was fruitful which provedthatstudent activities leadto development of speakingskills among students.

The Importance of Speaking Skills is an article by Gerald Gillis and published in 2013. It talksabout the importance of speaking skills in life. According to the study, Career enhancement, being competent, communicationskills, ability to convince, and personal satisfactiona rethemerits of a person with speaking skill. Speaking provides us with a superior connection with listeners that is rarely achieved in other forms of communication.

The Impact of Gagne's Theories on Practice is a work by Dennis Fields published in 1996. Hesays that Robert Gagne's theories had a considerable blow on instructional designers. He mainlypredisposed teaching and skill acquisition and adopted customary practices as a stimulus for theexpansion of theory. Gagne sought to relate theory to practice, and was much fascinated ininculcatingtheory toschool practices inordertomakeit moreinventiveand resourceful.

Harmer (1991) studiedthe necessityofextrinsic and intrinsic motivation in the processof learning. According to him, the Students' approach towards speaking the language can be in luenced by diverse external factors, such as people in close atmosphere, earlier speaking practice in a foreign language or the career opportunities on hand after obtaining for eign language age communication skills.

Ina studynamed*Gagne'sHierarchicalTheory ofLearning: Some ConceptualDifficulties*, David Soulsby says that Gagne lacks the soundness of conceptual foundations. Also he questionsthe practicability of the theoryformulated byGagne.According to him, if the lowerclassteachersfailtofeedthechildrenwithproperinformation,thelaterstageswouldn'thappenw ell.

ACTIONHYPOTHESES

> Thestudents of secondary school facedifficulty in speaking English fluently.

The instructional design constructed helps to improve the speaking skills of students of secondaryschool students.

OBJECTIVES

- To improve the speaking skills of secondary school students with the help of aninstructionaldesignbasedontheHierarchyofLearningTheory formulatedbyRobertM.Gagne.
- > To evaluate the effect of the instructional design in enhancing speaking skills amongstudents.
- > Togothroughsomestudiesthathas alreadybeenconducted onsimilartopics

ACTIONDESIGN

	PHASES	ACTIVITIES		
Ι	Identificationoftheproblem	 classroomactivitiesofstudents 		
		≻ test		
		> interaction		
II	Confirmation of theproblem	studentslack speakingskills		
III	Establishingtheproblem	> pretest		
IV	Selectionofstrategy	Instructionaldesignbase		
		donGagne'sHierarchyof		
		Leaning Theory		
V	Implementationphase	> practice		
VI	Evaluationphase	➢ Posttest		

Table1.ActionResearchTemplate

ANALYSISANDINTERPRETATIONOFDATA

sl.				standard	t	LEVEL OF	
no.	CATEGORY	N	MEAN	deviation	valu e	SIGNIFICAN CE	RESULT
1	PRETEST	14	30.60	5.90			
2	POSTTEST	16	20.08	9.08	3.44	0.01 LEVEL	SIGNIFICAN T

Table2.tscoreof Pre-testand Post-test

Table 2 shows that the mean and standard deviation of pre-test is 30.06 and 5.90 consecutivelyand of post test is 20.08 and 9.08. The t value is 3.44 and it is 0.01 levels significant. So thehypotheses can be accepted. The pretest was conducted in a group of

fourteen students and post-testin a group of sixteen.

FINDINGSOFTHESTUDY

Drawnfromtheanalysisofdatacollected, thehypothesesarebeingaccepted. Itisconcludedthatthe instructional design constructed can help teachers to improve speaking skills amongsecondary school students. The teachers can adopt these measures in order to keep their studentsgood at speaking which will motivate them to speak in public as well. It is a need in this centuryto improve the communicative competency of students so that they can be confident as well asfluent in interacting with the external world. The related studies on this topic also prove that suchattemptstodeviatefromthecliché methodologyofteachingare normallyeffectiveinclassrooms.

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