

Achievement Test

ANIKET SUTRADHAR

M.Sc. (Physics), M.Ed., M.Phil. (Education)

UGC NET (Education) {4 times}, WB SET (Education)

Assistant Professor in Physics (B.Ed.),
Kalna College

Ex-Asst. Professor, Tarasankar Bandyopadhyay B.Ed. Institution

Ex-Asst. Professor, Wali Institute of Teachers' Education

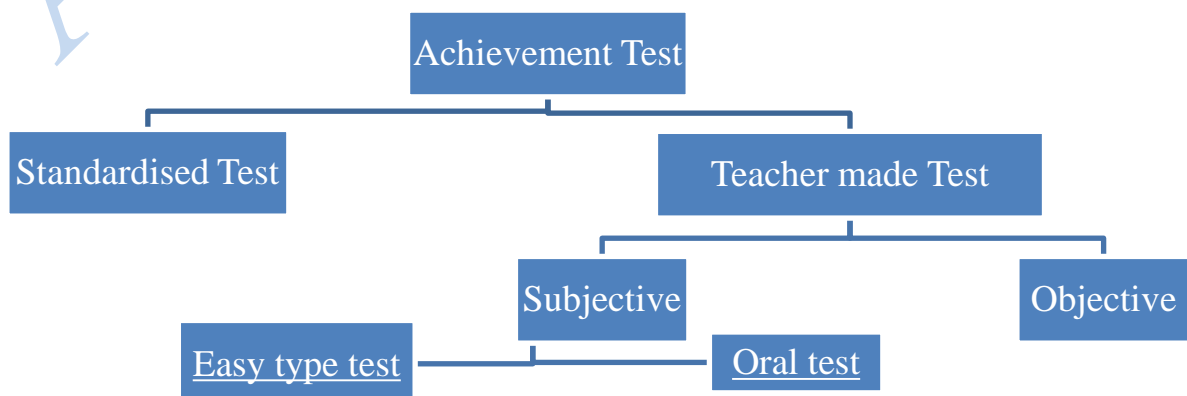
Achievement Test

Definitions:

Garrison— "The achievement test measure the present ability of the child or the external of his knowledge in a specific content area"

Thorndike— "When we use an achievement test we are interested in determining what a person has learnt to do after he has been exposed to a specific kind of instruction."

Types:



🔍 Characteristics of **Standardised test**:

- i) Uniform questions and directions
- ii) Time limit
- iii) Validity
- iv) Reliability
- v) Norms

🔍 Types of Standardized Tests:

- Aptitude tests,
- Attitude test,
- Intelligence tests,
- Interest tests,
- Personality tests

🔍 Characteristics of **Teacher made test**:

- i) Assess student's progress with reference to classroom activities.
- ii) Developed by the teachers
- iii) assess students learning every period of time or after a particular unit of study
- iv) Motivate the students
- v) Simple to use
- vi) Provide feedback for teachers as to assess the effectiveness of teaching methods.

● Steps— Construction of Achievement Test:

1. Planning of test

- a. Objective of the Test
- b. Determine the maximum time and maximum marks

2. Preparation of a design for the test

Important factors to be considered in design for the test are:

a. Weightage to objectives

This indicates what objectives are to be tested and what weightage has to be given to each objective.

Sl.No	Objectives	No. of Questions	Marks	Percentage
1	Knowledge	6	7	28
2	Understanding	5	7	28
3	Application	4	6	24
4	Skill	2	5	20
Total		17	25	100

b. Weightage to content

This indicates the various aspects of the content to be tested and the weightage to be given to these different aspects.

Sl.No	Content	No. of Questions	Marks	Percentage
1	Unit-1	6	9	36
2	Unit-2	6	9	32
3	Unit-3	5	7	32
Total		17	25	100

c. Weightage to form of questions

This indicates the form of the questions to be included in the test and the weightage to be given for each form of questions.

Sl.No	Form/Type of Question	No. of Questions	Marks	Percentage
1	Objective Type	6	6	24
2	Very Short Answer Type	5	5	20
3	Short Answer Type	4	8	32
4	Essay type	2	6	24
Total		17	25	100

d. Weightage to difficulty level.

This indicates the total mark and weightage to be given to different level of questions.

Sl.No	Difficulty level	No. of Questions	Marks	Percentage
1	Easy	5	5	20
2	Average	10	15	60
3	Difficult	2	5	20
Total		17	25	100

3. Preparation of blue-print:

Blue print is a three-dimensional chart giving the placement of the objectives, content and form of questions

Content / Unit	Knowledge				Understand				Apply				Skill				Total Marks	Percentage
	OT	VSAT	SAT	ET	OT	VSAT	SAT	ET	OT	VSAT	SAT	ET	OT	VSAT	SAT	ET		
Unit-1: .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	36
Unit-2: .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	36
Unit-3: .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	28
Total Marks	7				7				6				5				25	
Percent age	28				28				24				20					100

4. Writing of items

- The paper setter writes items according to the blueprint.
- The difficulty level has to be considered while writing the items.
- It should also be checked whether all the questions included can be answered within the time allotted.
- It is advisable to arrange the questions in the order of their difficulty level.

Example:

KRISHNADEVPUR HIGH SCHOOL (H.S.)

ACHIEVEMENT TEST

Class: IX

Time : 45 Min.

Sec.: A

Sub:Physical Science

Max. Marks: 25

Instruction:

Q. 1. a)....

Q. 2. a) etc

5. Preparation of the scoring key and marking scheme

- In the case of objective type items where the answers are in the form of some letters or other symbol a scoring key is prepared.

Scoring Key

Question No.	Answer	Marks
1. a)	A	1
1. b)	C	1
1. c)	A	1
1. d)	D	1

- In the case of short answer and essay type questions, the marking scheme is prepared. In preparing marking scheme the examiner has to list out the value points to be credited and fix up the mark to be given to each value point.

Marking Scheme

Question No.	Value points	Marks	Full Marks
2. a)	Value point – 1	½	2
	Value point – 2	½	
	Value point – 3	½	
	Value point – 4	½	
2. b)	Value point – 1	½	2
	Value point – 2	½	
	Value point – 3	½	
	Value point – 4	½	

6. Preparation of Question-wise Analysis

It helps to know the strengths and weakness of the test, to tally the question paper and the blueprint, and to determine the content validity of the test.

Q.No.	Content	Objective	Type of Q.	Difficulty	Marks	Estimated Time
1 a	U-I	Knowledge	Objective	Easy	1	1min
1 b	U-II	Understand	Objective	Average	1	1min
2 a	U-I	Apply	V.S.A.	Easy	1	1min
3 a	U-II	Apply	S.A.	Average	2	3min
4 a	U-II	Skill	Essay	Difficult	3	8min

And so on....

● Use of achievement test:

- i. Grading
- ii. Classification
- iii. Motivation
- iv. Individual instruction
- v. Individual help
- vi. Counselling to students
- vii. Diagnosis of students' difficulty
- viii. Test of teacher's performance.