



# Construction and Standardization of Interest Measurement Test for the Students Anand District

NIKITABEN BHAILALBHAI PATEL  
Research Scholar,  
Singhaniya University, Rajasthan  
India

## Abstract:

*The statement of problems was "Construction and Standardization of Interest Measurement Test for Students of standard-11<sup>th</sup> and 12<sup>th</sup> of Anand District. The researcher had decided objectives considering her limited sources, energy and time. Independent variables were gender (male-female), standard of students Interest Measurement Test. Students of standard 11<sup>th</sup> and 12<sup>th</sup> of Gujarati Medium school students of Anand District of education year 2011-12 were selected as universe in the present study. Among which 287 students were selected as sample for the present study. To collect data the researcher had constructed self made tool Interest Measurement Test. After getting data from students, analysis was done by 't' value. Null Hypothesis was constructed to clear her objectives. Analysis was done for each Hypothesis. The field of research was Educational Psychology. The research was practical as well as statistical.*

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**Keywords:** Construction, Education, IMT, Interest, Psychology

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## 1. Introduction

Every person has to adjust himself to sustain his existence. Interest is a continuous process. When a child is in mother's embryo, he has to adjust with environment. After his birth he enters in new atmosphere, again he has to adjust as new atmosphere and situation till his whole life to sustain his existence. A person has not to adjust only with air, water, sleep, but also in the natural matters like family, social, educational psychological and spiritual fields and global field also.

Education is essential in present day life. To achieve higher achievement is the motto of every student. But all students cannot reach to this peak. Hence, problems of depression, tension and Interest arise which make his whole life problematic. Hence, the researcher has constructed a test and standardized it to measure Interest capacity of students of standard 11<sup>th</sup> and 12<sup>th</sup> of Anand district of Gujarat State.

## 2. Statement of Problem

The title of Problem is as under.

Construction and Standardization of Interest Measurement Test for students of standard 11<sup>th</sup> and 12<sup>th</sup> of Anand District.

## 3. Objectives of the Study

1. To construct Interest Measurement Test.
2. To standardize Interest Measurement Test.

3. To establish reliability and validity of score of Interest Measurement Test of standard 11<sup>th</sup> and 12<sup>th</sup>.

#### **4. Variables of the Study**

##### **4.1 Independent Variables**

1. Standard 11<sup>th</sup> and 12<sup>th</sup>
2. Gender (1) Boys (2) Girls

##### **4.2 Dependent Variable**

Score of Interest Measurement Test.

#### **5. Hypothesis of the Study**

1. There would be no significant difference between average score of Interest Measurement Test of students of standard 11<sup>th</sup> and 12<sup>th</sup>.
2. There would be no significant difference between average score of Interest measurement test of boys and girls.

#### **6. Importance of the Study**

1. This study would be helpful to students, teachers and parents.
2. Measurement of Interest capacity of Gujarati medium standard 11<sup>th</sup> and 12<sup>th</sup> Students of central Gujarat could be done by this test.

#### **7. Limitations of the Study**

The limitations of the study are as under.

1. This Interest Measurement Test is limited to students of only.
2. This Interest Measurement Test is limited to standard 11<sup>th</sup> and 12<sup>th</sup> students of Anand District only.

#### **8. Definitions of the Terms**

##### **8.1 Interest**

1. The sense of curiosity about or concern with something or someone an interest in butterflies
2. The power of stimulating such a sense to have great interest
3. The quality of such stimulation
4. Something in which one is interested; a hobby or pursuit
5. (*Often plural*) benefit; advantage in one's own interest

#### **9. Universe and Sample**

##### **9.1 Universe**

Students studying in standard 11<sup>th</sup> and 12<sup>th</sup> of Gujarati medium schools situated in Anand District during 2011-12 were universe for the present study.

##### **9.2 Sample**

Several schools were randomly selected from universe. They were selected from Anand District. Students of Standard 11<sup>th</sup> and 12<sup>th</sup> were selected by stratified random sampling method. 177 students from standard 11<sup>th</sup> and 110 students from standard 12<sup>th</sup>, making total 287 students were selected in sample in which 196 were boys and 91 were girls.

## 10. Construction of Tools

Researcher herself possesses graduate degree in psychology and also studied psychology at post-graduate level and on the basis of personal experience; she has constructed Interest Measurement Test.

### 10.1 Collection of Statements

The researcher, after studying various researches and books on psychology and Interest, constructed 88 Interest Measurement statements, considering three fields:-

1. Education (Regarding school)
2. Regarding family
3. Social

### 10.2 Construction of Preliminary Form of Interest Measurement Test

First of all, the researcher had constructed 88 statements in preliminary form of Interest Measurement Test. In the first section of scale, students had to write details like their name, name of school, standard and Gender (boy or girl) etc. then they had to read and make a round against 'yes' or 'no' according to concurrence of the statement.

### 10.3 Sample Selection for preliminary form of Interest Measurement Test

The detail of Sample Selection of Students of standard 11<sup>th</sup> and 12<sup>th</sup> for Preliminary try-out of Adjustment Measurement test is mentioned in following table.

**Table 1**  
**Detail of Sample Selection of Students of std-11<sup>th</sup> and 12<sup>th</sup> for Preliminary try-out of Interest Measurement Test**

No.	Name of School	Gender	Standard 11 <sup>th</sup>	Total
1.	Shri M.U. Patel High School, Anand	Boys	77	77
		Girls	48	48
Total			125	125

### 10.4 Analysis of Preliminary Form of Interest Measurement Test

There were 138 statements in preliminary form of Interest Measurement Test. Researcher had found out Difficulty value and Discrimination value for each statement of Interest Measurement Test. Details of which are given in Table 2.

**Table 2**  
**Difficulty Value and Discrimination Value of Statements of Preliminary Form of Interest Measurement Test**

Statement No.	Difficulty value	Discrimination Value
1.	0.44	0.57
2.	0.51	0.44
3.	0.66	0.50
4.	0.62	0.53
5.	0.66	0.50

### 10.5 Construction of Final Form of Interest Measurement Test

88 statements were included in the final form of Interest Measurement Test considering better in Difficulty value, and Discrimination Value.

#### 10.5.1 Construction of Answer Sheet and Product

There were 88 statements in the present Interest Measurement Test. Students had to make round against alternatives 'yes' or 'no' according to concurrence of each statement. There was mark for the answer 'yes' and 0 (zero) mark for 'no'. There was no time-limit for response in the Test.

## 11. Collection of Data

Data were collected by Interest Measurement Test from students of 11<sup>th</sup> and 12<sup>th</sup> of schools of Anand District during 2011-12 in the present study. The researcher had collected data from 287 students of 4 schools by Interest Measurement Test. There was no time-limit for proper response in Test. Majority of students responded within 30 minutes and given back their answer sheet filling details in it.

## 12. Analysis of Data

Analysis of data was done by Excel programme of Computer in average, S.D., standard Error, and t-value of obtained score according to every variable in present study.

### 12.1 Effect of Standard on Score on Interest Measurement test of Students of 11<sup>th</sup> and 12<sup>th</sup>

**Table 4**  
**Significance of difference between average score of Interest Measurement Test of Students of 11<sup>th</sup> and 12<sup>th</sup>**

Variable	Total	Average Score	S.D.	t-value
Standard 11 <sup>th</sup>	177	36.24	8.51	0.41
Standard 12 <sup>th</sup>	110	35.87	6.62	

Observing Table 4, it can be seen that, there was no significant difference in score of Interest Measurement Test of students of standard 11<sup>th</sup> and 12<sup>th</sup>.

### 12.2 Effect of Gender on Score on Interest Measurement Test

The effect of gender is mentioned in following table.

**Table 5**  
**Significance of difference between average score of Interest Measurement Test of boys and girls**

Variable	Total	Average score	S.D.	t-value
Boys	196	35.22	6.94	2.56*
Girls	91	37.98	9.21	

\* Significant at 0.05 level

While observing Table-5, significant difference was noted at 0.05 level in score of Anxiety Measurement Test of Boys and girls. Observing Table 5 it is seen that, there was no significant difference at 0.05 level in average score of Interest Measurement Test of boys and girls.

### 13. Findings

1. Interest capacity of students was same of standard 11<sup>th</sup> and Standard 12<sup>th</sup>.
2. Interest capacity of boy and girls students was same.

### Reference

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