

Experiment No - 01

Effect of Set on Perception

INTRODUCTION: MEANING & DEFINITION OF PERCEPTION

The process which gives the present knowledge of the stimulus in the environment is known as Perception. This is that mental process by which the person describes the received stimulus or the mental process which gives meaning to the sensation which is called Perception.

DEFINITION:

According to H.J. Eysenck (1972) "Perception is a psychological function which enable the organism to receive and process information on the state of alterations in the environment.

CHARACTERISTICS OF PERCEPTION:

- (1) It is a psychological function.
- (2) It is affected by past experiences.
- (3) Physical energy is gained by the medium of sensory organs. In the second form of physical energy is changed as the nerve impulse giving in formation. In the third stage when nerve impulse reaches the brain the same mandatory process begins.
- (4) Change is the basis of perception.

DETERMINANTS OF PERCEPTION:

1. Effect of context on Perception
2. Effect of learning on Perception
3. Effect of set on perception
4. Effect of set on recognition.
5. Effect of set on figure-background relation.

There are many other factors which effect Perception.

PROBLEM:

To study the effect of set on perception.

HYPOTHESIS:

It is hypothesized that the set would exert positive effect on perception. In other words, the subject would solve more of definite set anagram than the indefinite set anagrams.

VARIABLES:

Independent Variable - Set

Dependent Variable - Perception

METHODOLOGY: INTRODUCTION OF SUBJECT

Subject Name -

Age -

Gender -

Education -

MATERIAL REQUIRED:

10 cards of anagram related to different categories of stimuli (Indefinite set), 10 cards of anagram related to one category of Stimuli (Definite set), paper, pencil, and stopwatch.

EXPERIMENTAL DESIGN:

To study the effect of set on perception the experiment will be performed in 2 conditions i.e. Definite set and Indefinite set.

In the 1st condition of Indefinite set 10 anagrams will be given to the subject one by one for 30 second each rightly solved anagram and time taken will be recorded and the rest was given to the subject one by one.

In the 2nd condition of Definite Set again 10 anagrams of a single category will be given to solve for maximum 30 seconds one by one as first condition then similarity total time taken will be recorded in the measurement column as done in the 1st condition.

**Table No. 1
Experiment Design**

Condition	Perceptual Task	Measurement
I Indefinite Set	10 anagrams of indefinite set to solve one by one maximum for 30 sec.	No of rightly solved anagrams and time taker
Rest of 5 Minutes		
II Definite Set	10 anagrams of indefinite set to solve one by one maximum for 30 sec.	No of rightly solved anagrams and time taker

**Table No. 2
Observation Table (Indefinite Set)**

S.No.	Presented Anagrams	Solution	Subjects Solution	Result	Time Taken (Sec)
1	OBTA				
2	OXB				
3	ALGSS				
4	EPN				
5	UMG				
6	JGU				
7	LOTHC				
8	HUSOE				
9	RIA				
10	NPI				

Total Anagram –

Solved –

Time Taken –

Table No. 3
Observation Table (Definite Set)

S.No.	Presented Anagrams	Solution	Subjects Solution	Result	Time Taken (Sec)
1	RAE				
2	YEES				
3	THTEE				
4	THOUM				
5	PILS				
6	EOSN				
7	DAEH				
8	KISN				
9	GLES				
10	AHND				

Total Anagram –
Solved –
Time Taken -

EXPERIMENTAL CONTROL:

Before starting the experiment, the following measures should be taken: -

- (1) A rapport was established before conducting the experiment.
- (2) Peaceful, calm and quiet environment was maintained during the experiment.
- (3) Appropriate light arrangements were made during the experiment.
- (4) The stopwatch was started and stopped at the proper time.
- (5) Care was taken to maintain equal difficulty level of both the conditions.
- (6) The subject should not be a psychology student.
- (7) Subject should not be informed about the nature and no. of material used in the experiment.

EXPERIMENTAL INSTRUCTIONS:

Before conducting the experiment, the following instructions were given to the subject for the effect of set on perception.

Listen! I am going to conduct an experiment with you whose success depends on your cooperation so kindly listen carefully and follow my instruction during the experiment.

1st CONDITION: INDEFINITE SET

See I'm going to tell you that in this experiment I will show you 10 cards one by one. In each card 1 anagram will be written. An anagram is a jumbled letter of a word. I have changed the system of the words. Your work is easy you have to set the right letter to make a word for example EPN- PEN. You will be given 30 second to solved each anagram, if you fail to solve within the time limit you will be considered unsuccessful then you will be given another set of cards one by one. You have to solve the anagram rightly as fast as you can.

2nd CONDITION: DEFINITE SET

After 5 minute rest again, you will be shown anagram cards. You have to solve it rightly in time but this time the anagram will be given belong to a single category as you solve it you will find it easier. Rest all are same as first condition.

If you have any doubt regarding this you may ask without any hesitation.

EXPERIMENTAL PROCEDURE:

Keeping the environment of the lab peaceful the subject was made to sit with easy and a rapport was established with the subject after that the experiment was started.

The first condition of experiment was the indefinite set in which subject was given 10 anagrams card of different category were given to solve for 30 second each. The rightly solved anagram and time taken to solve it was recorded. If the subject was unable or unsuccessful into solve the anagram within the given time he/she was given another anagram to solve for 30 second.

In the second condition of definite set the subject was given 10 another anagram one by one of single category to solve for 30 second each. The rightly solved anagrams were recorded as same in the first condition. Data was calculated after completion of experiment.

**Table No 4
Data Analysis**

Condition	Total anagrams presented	Subjects Solution	Solution in %	Total Time Taken	Average Time
I Indefinite Set	10				
II Definite Set	10				

DATA ANALYSIS:

The experiment was conducted to assess the effect of set on perception. The experiment was performed in two condition. First condition of indefinite set in which the subject solved anagrams out of 10 anagrams which is in seconds on an average time.....whereas in second condition of definite set the subject solved..... anagrams which isin an average time of seconds.

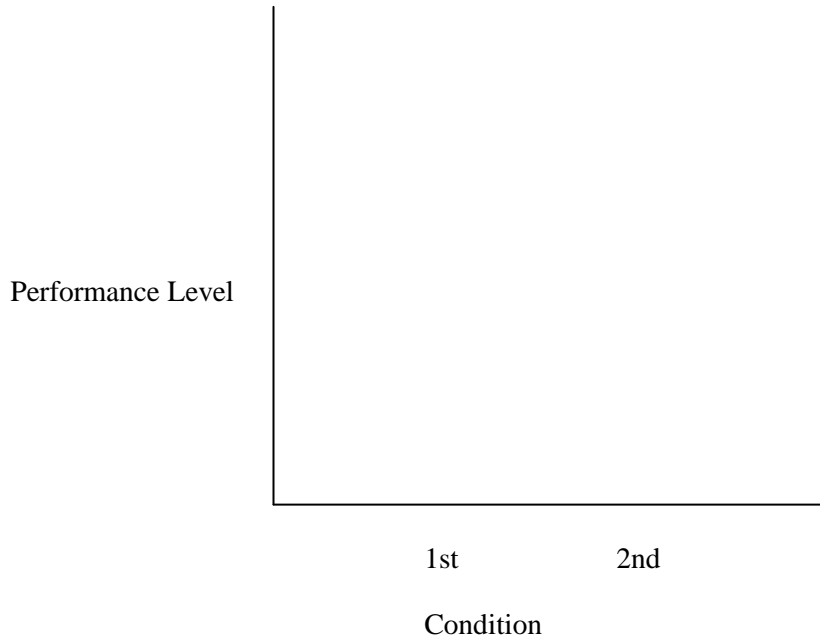
RESULT AND DISCUSSION:

The aim of the experiment was to assess the effect of set on perception. The hypothesis was that the set would exert positive effect on perception. In other words, the subject would solve more of definite set anagram than the indefinite set anagrams. The experiment was performed in two condition. First condition of indefinite set in which the subject solved anagrams out of 10 anagrams which is in seconds on an average time.....whereas in second condition of definite set the subject solved..... anagrams which isin an average time of seconds.

Note: - Result and Discussion to be done by students themselves on the basis of result of experiment.

Bar Diagram – 01

Percentage of Subject in the two conditions



Bar Diagram – 01

Time taken of Subject in the two conditions

