



# Project of Child Development

TROJANS

(WORK LIKE A TROJANS)

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# PROJECT TOPIC:- JEAN PIAGET THEORY OF COGNITIVE DEVELOPMENT

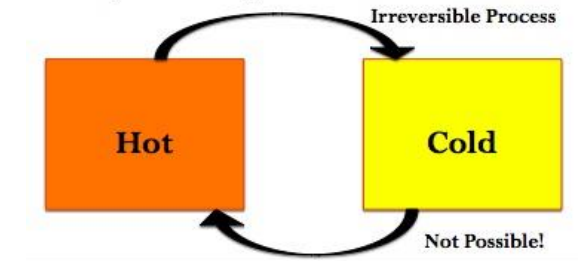
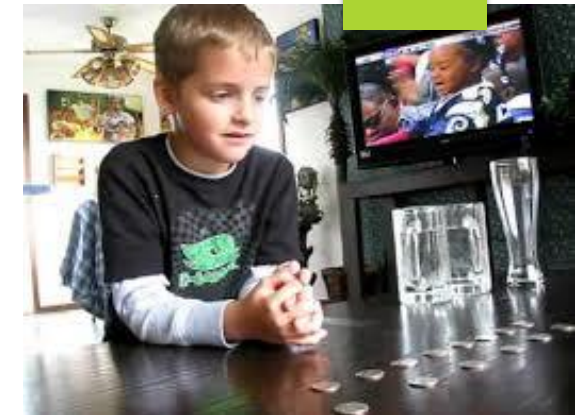
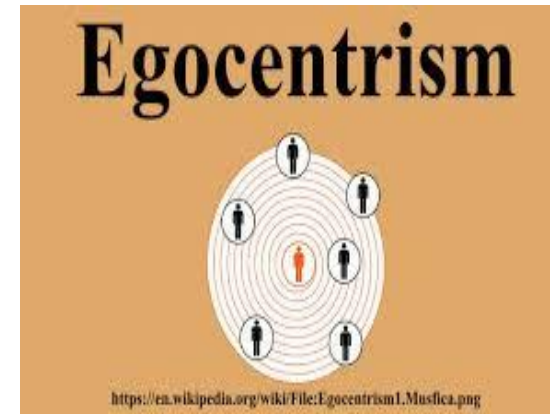
- ▶ **AREA:**
- ▶ **PRE OPERATIONAL (2 TO 7 YEAR)**
- ▶ **CLASS (NURSARY TO TWO )**
- ▶ **CONCRETE OPERATIONAL (7 TO 11 YEAR)**
- ▶ **CLASS ( THREE TO FIVE)**
- ▶ **FORMAL OPREATIONAL (12 AND UP)**
- ▶ **CLASS (SIX TO ONWARD)**



## THEORY CONCEPTS :-

Theory focuses not only on understanding how children acquire knowledge, but also on understanding the nature of intelligence.

- **PRE OPERATIONAL :-**
- **CENTRATION:** FOCUS ONLY ONE ASPECT OF A SITUATION.
- **ANIMISM/ARTIFICIALISM:** LINK OF NATURAL THINGS WITH THEIR OWN STORIES.
- **PRETEND PLAY:** THEY PRETEND TO ACT LIKE OTHERS.
- **CONCRETE OPERATIONAL:-**
- **LOGICAL THINKING :** UNDERSTANDING AND INCORPORATION IN EVERYDAY ACTIVITIES .
- **IREVERSIBILITY :** BELIEVE THAT ACTIONS CANNOT BE REVERSED.
- **END OF EGO CENTRISM:** EGOCENTRISM IS A CONCEPT IN WHICH INDIVIDUAL ONLY FOCUS ON THEIR OWN SELF .
- **END OF CENTRATION :** CHILD START TO THINK LOGICALLY.



# THEORY CONCEPTS

- **FORMAL OPERATIONAL:-**
- META COGNITION : TENDENCY TO SOLVE PROBLEMS .
- PERSONALITY DEVELOPMENT: Person behavior towards different events.
- ROLE IDENTIFICATION : Know your goals and aim in life.
- GENERAL KNOWLEDGE
- SCIENCE LAW : Know the science principals and laws and their effects



# OBJECTIVE:

- TO CHECK THESE STAGES OF THEORY IS APPLICABLE FOR THE CHILD OF THIS AGE. ADDITION OF SOME POINTS FOR THE BETTER DEVELOPMENT OF THE CHILD .
- TO CHECK WHETHER THESE STAGES IS IMPLEMENTED AT THE SCHOOL SETTINGS.
- TO HOW EXTENT THIS THEORY IS APPLICABLE .



OBJECTIVES





# QUESTIONNAIRE:-

- TAKEN FROM RESEARCH ARTICLE ON JSTOR WEBSITE BY WILEY ON BEHALF OF THE SOCIETY FOR RESEARCH IN CHILD DEVELOPMENT.

## PRE OPERATIONAL STAGE:- CLASS :- **NURSERY TO 2**

- Answer through observation
- Q1. Make two lines of coins (having equal coins) then spread one line of coin so that its length increases
- Then ask the child which line has more coins.
- **CENTRATION**
- Q2. Why the cloud thunder?
- ANIMISM/ARTIFICIALISM
- Q3 What do you want to become in future, Have you ever pretend it in a play?
- **PRETEND PLAY**
- Q4. Identify quantity of cookies present on table?
- **CENTRATION**



# CONCRETE OPERATIONAL STAGE:- CLASS :- 3 -5

- Q1. Hamad has some money as Abu bakar then how much money abu bakar have ?
- **LOGICAL REASONING**
- Q2. Cat is an :-
  - (a) Animal (b) bird (c) reptile
- **IRREVERSIBILITY**
- Q3. If we give you 500 rupees to slap your best friend will you slap him.
- **END OF EGOCENTRISM**
- Q4. Why wood float while iron sink in the water?
- **END OF CENTRATION**

# FORMAL OPERATIONAL STAGE:- CLASS :- 6<sup>TH</sup> TO ONWARD

- Q1. Balance the rod by using different weight in front of you.(through observation)
- **METACOGNITION**
- Q2.What will you do if you are given a bag full of money.
- **PERSONALITY DEVELOPMENT**
- Q3. What do you want to become in future and why?
- **ROLE IDENTIFICATION**
- Q4. Who is the current President of Pakistan?
- **GENERAL KNOWLEDGE**
- Q5. In how much time earth completes its one rotation?
- **SCIENCE LAWS**

# FORMAL OPERATIONAL STAGE:-

- Q4. What will happen to a metal rod if it is put under the sun in hot weather for a long time ?
- **DEDUCTIVE REASONING**

90% Fail answer?

$$\begin{array}{ccccccccc} 1 & + & 1 & + & 1 & + & 1 & + & 1 \\ 1 & + & 1 & + & 1 & + & 1 & + & 1 \\ 1 & + & 1 & \times & 0 & + & 1 & = & ? \end{array}$$

Asya Thomas

- **PROBLEM SOLVING**

# SCALE USED FOR MARKING:-

A :- 100% CORRECT ANSWER

B :- 50% CORRECT ANSWER

C :- FULL INCORRECT ANSWER

THIS SCALE IS USED IN EVERY QUESTION  
EXCEPT FOR PERSONALITY QUESTION.

IN PERSONALITY QUESTION AT FORMAL  
OPERATIONAL STAGE THE MAJORITY  
ANSWER IS USED IN THE SCALING.

## RESULT OF IMPLEMENTATION OF PREOPERATIONAL STAGE :-

► SCHOOL:-  
ANSWER%

CORRECT ANSWER%

WRONG

KWS

29%

71%

CITY CARDINAL

8%

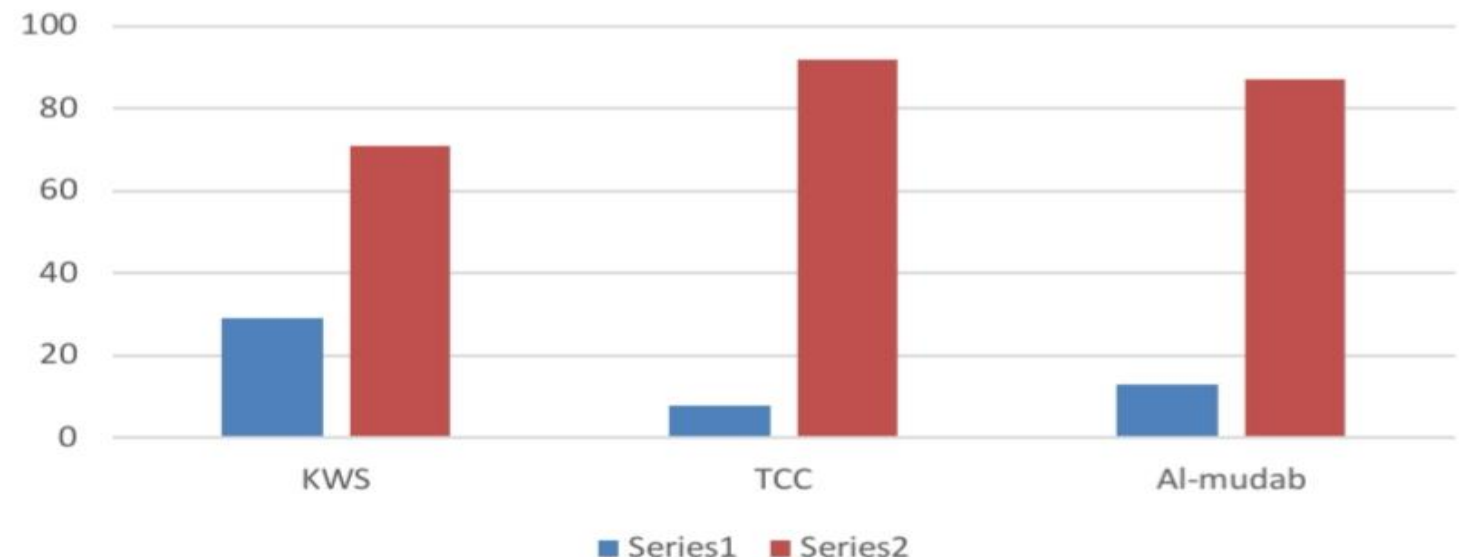
92%

AL-MUDDABIR

13%

87%

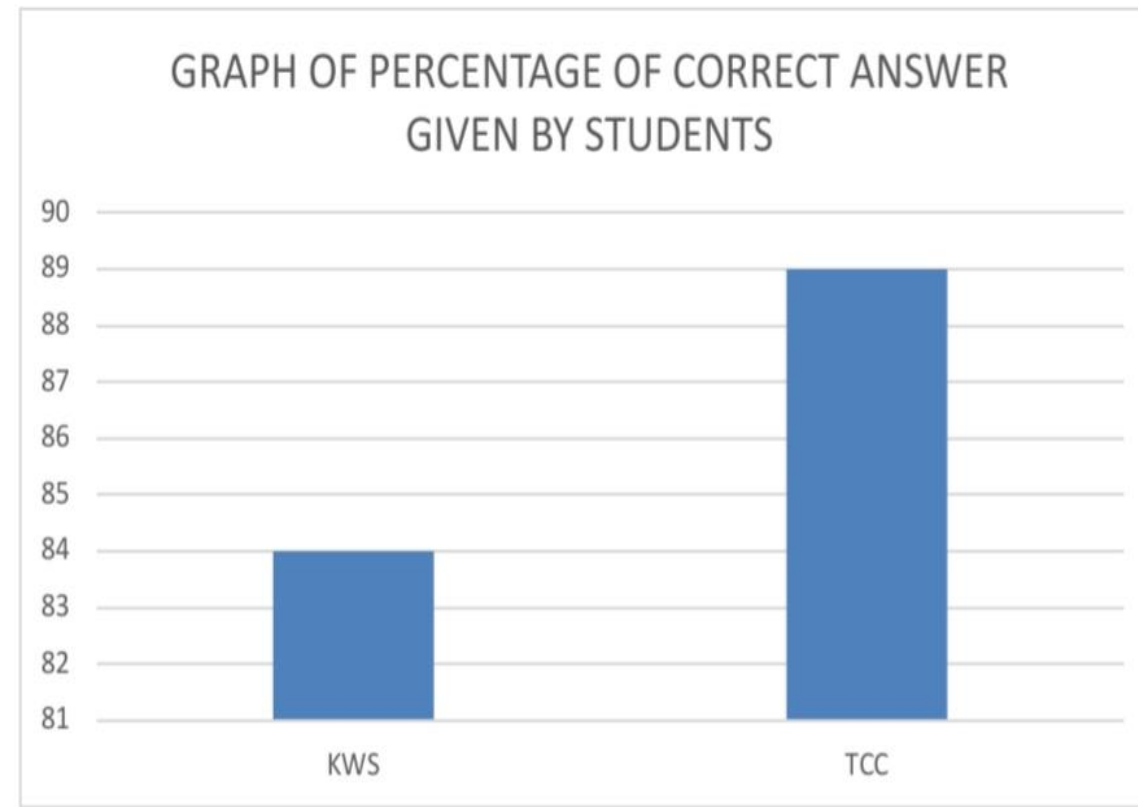
RELATIONSHIP BETWEEN RIGHT ANSWERS (blue color) and wrong answer (red color)



# RESULT OF IMPLEMENTATION OF CONCRETE OPERATIONAL STAGE:-

## ■ SCHOOL:-

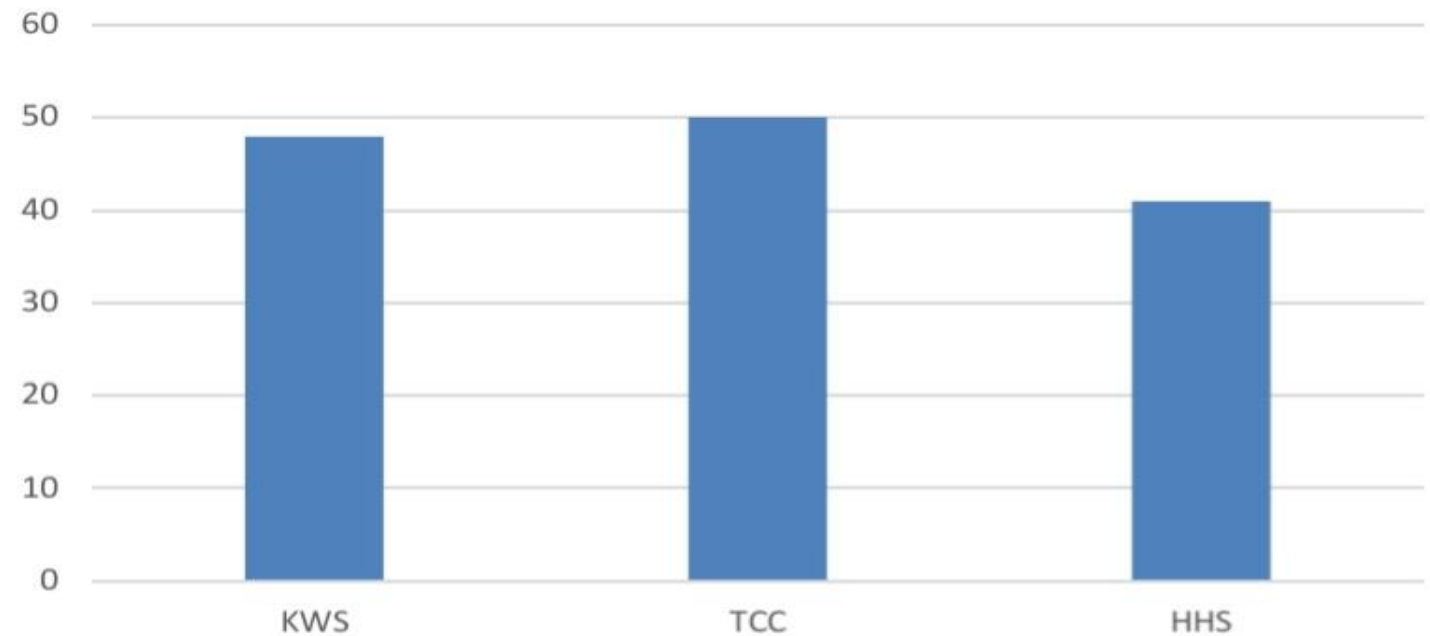
	<b>CORRECT ANSWER</b>	<b>WRONG ANSWER%</b>
■ KWS	<b>84%</b>	<b>16%</b>
■ CITY CARDINAL	<b>89%</b>	<b>11%</b>



## RESULTS OF IMPLEMENTATION OF FORMAL OPERATIONAL STAGE:-

SCHOOL:-	CORRECT ANSWER%	WRONG ANSWER%
KWS	48%	52%
CITY CARDINAL	50%	50%
HUSSAIN HIGH SCHOOL	41%	59%

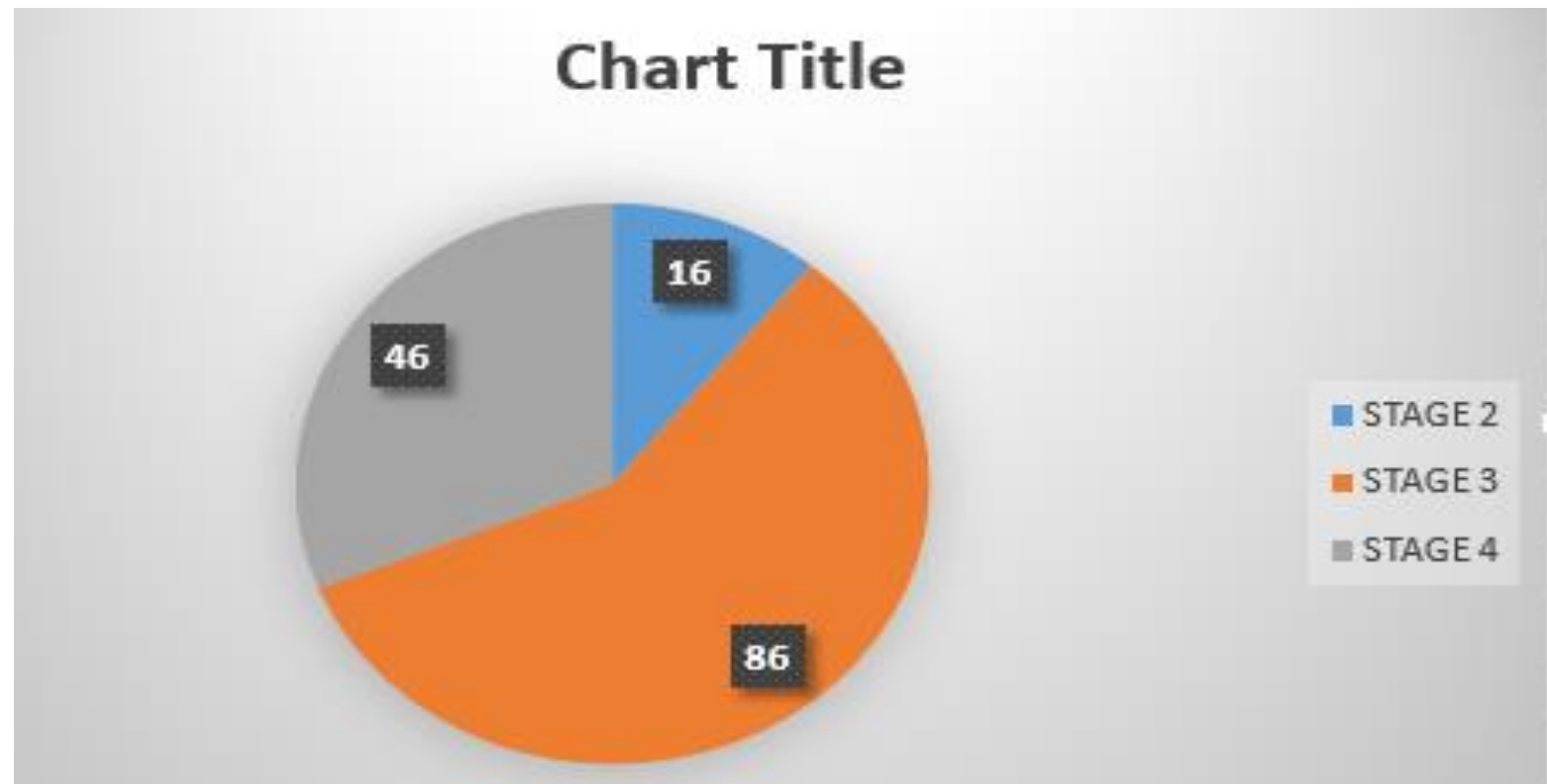
Graph of correct answer given by students





## IMPLEMENTATION OF STAGES AT SCHOOL SETTINGS:-

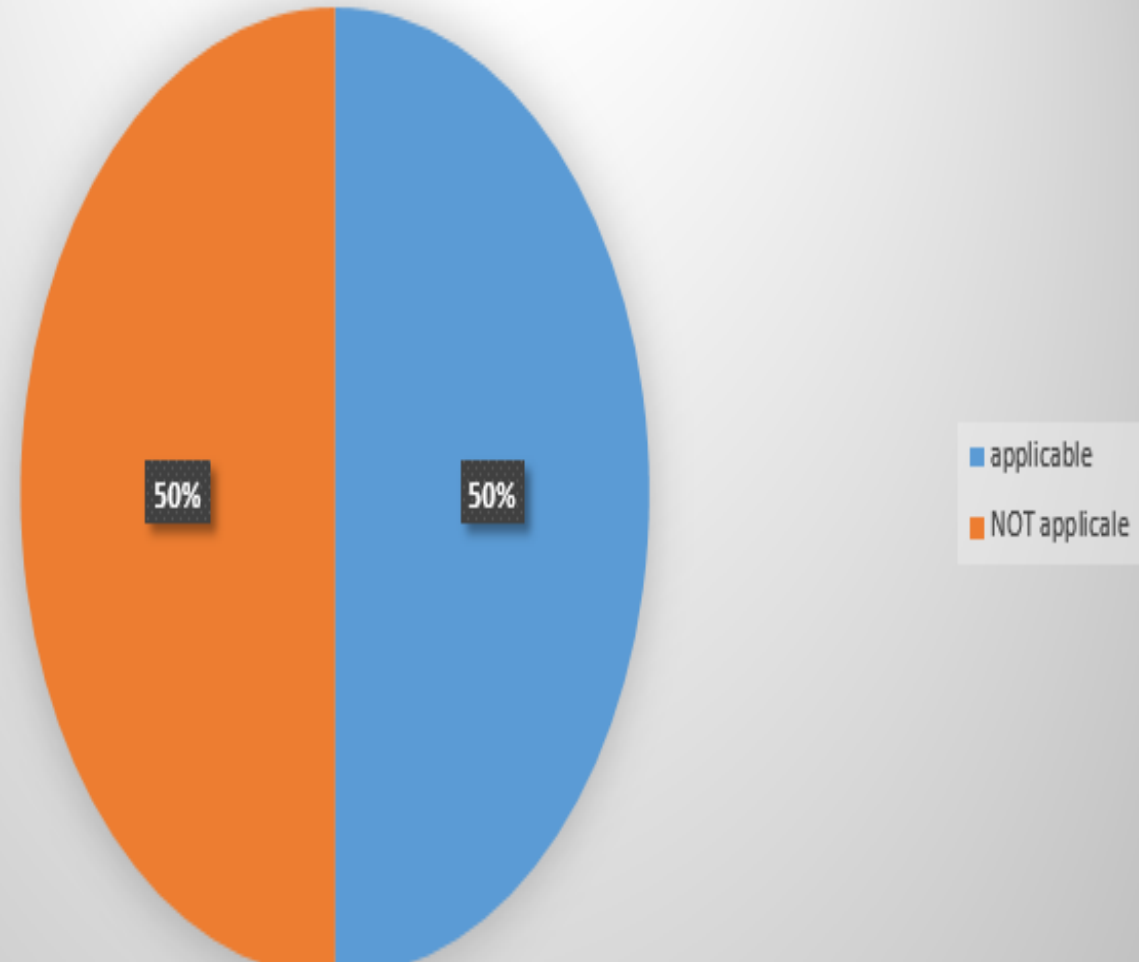
- ▶ **PREOPERATIONAL STAGE:- 16%**
- ▶ **CONCRETE OPERATIONAL STAGE :- 86%**
- ▶ **FORMAL OPERATIONAL STAGE :- 46%**



# TOTAL 3 STAGES IMPLEMENTED IN THE SCHOOLS

- ▶ OVERALL % OF THEORY  
IMPLEMENTED:- 50%

implementation of this theory stages at schools



# Why this theory is not implemented 80 or 90% at Schools at current era?

- To some extent this theory is implementing but to some not. following are the reasons:-
- Cognitive development based on learner's active engagement with exploration of their physical and social world.
- Teaching and learning need to be active.
- Every child has different social, moral and thinking so teacher must have enough skills to cooperate with every type of students.

# Why this theory is not implemented 80 or 90% at Schools at current era?

- This theory often fail to accurately capture the many individual variations that exist in development.

# How it will fully implemented in this current era :-

- **Preoperational stage:-** At this stage mostly child is not obeying this theory. According to our report **only 16% child** full fill our criteria and other do not. The main reason is of environment.
- **Concrete stage :-** According to our report this stage is full filling its point at school setting.
- **Formal stage :-** According to our report **only 46 %** students full fill our criteria of this stage other do not. The main reason is that there is no self-learning.

# Educational Implications

- Emphasis on discovery approach in learning.
- Curriculum should provide specific educational experience based on children's developmental level.
- Arrange classroom activities so that they assist and encourage self learning.
- Social interactions have a great educational value for Piaget. Positive social actions, therefore should be encouraged.
- Instruction should be geared to the level of the child. As the level of the child changes at each stage, the level of instruction or exploratory activities should also change.
- Simple to Complex and Project method of teaching.
- Co-curricular activities have equal importance as that of curricular experiences in the cognitive development of children.

How it will  
fully  
implemented  
in the schools

# Points that if added to this theory so that it will fully implemented:-

Piaget's theory does not account for other influences on cognitive development, such as **social** and **cultural influences**. So this two must be added in the theory.

Cognitive development is **uneven process**, different learner make gear shift at different time and different learning area social context in which child is developing. So now we must check the mindset of the child not the age.

Cognitive development based on learner's active engagement with exploration of their **physical** and **social world**.



**Any  
questions**



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ANY  
QUESTIONS?

# Last words: (Conclusion)

- Viewing all the questionnaire solved by the students of this project leave us at one decision that this theory is applicable by adding only some points which is mentioned above.
- All the schools fully cooperate with our team.
- We are also thankful to our teachers who allow us to do work on this project.



## REFERNCES :-

- Slide Share website article uploaded by ayushi gupta.
- Research Gate website article uploaded by cape peninsula University.
- RESEARCH ARTICLE ON JSTOR WEBSITE BY WILEY ON BEHALF OF THE SOCIETY FOR RESEARCH IN CHILD DEVELOPMENT.