

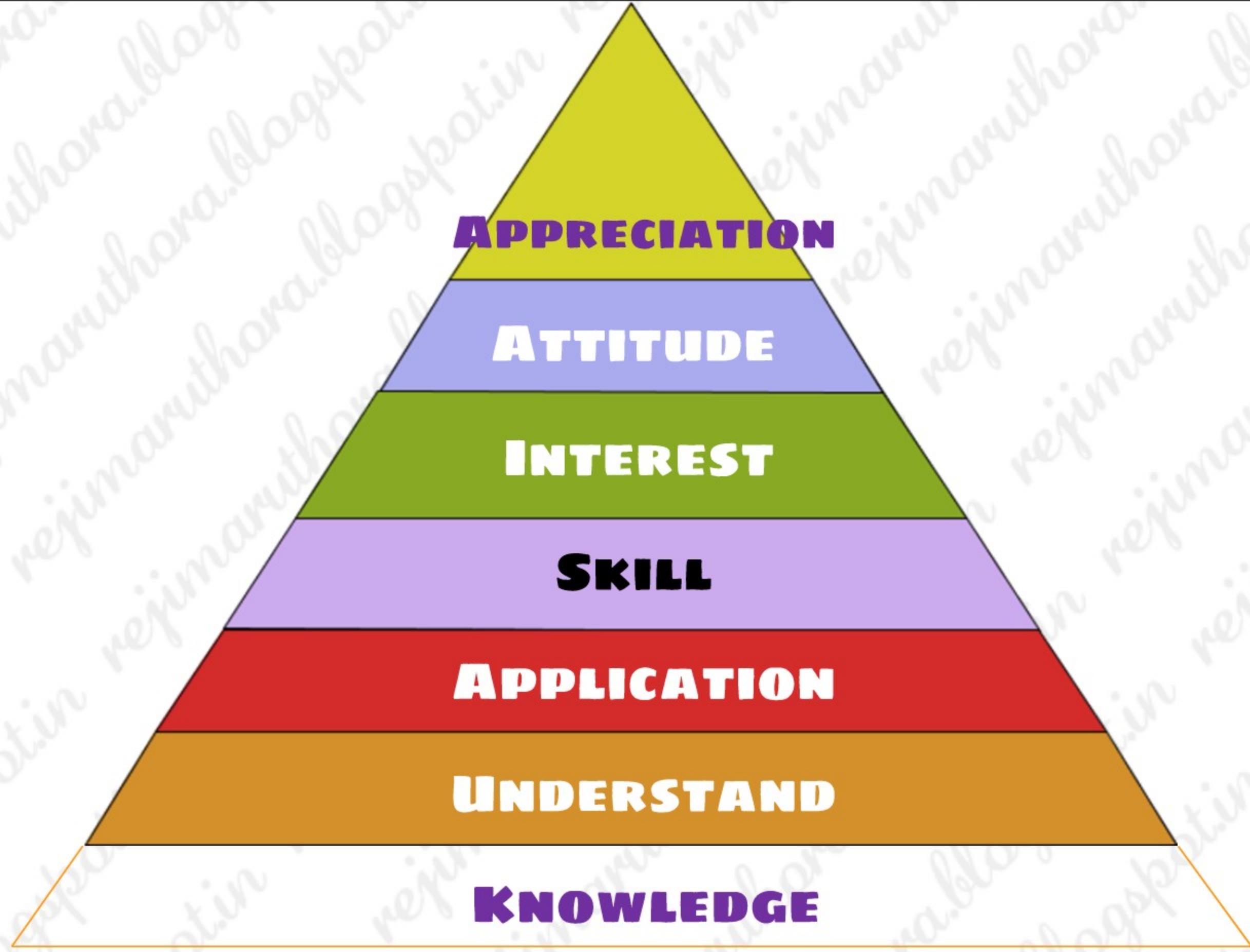
NCERT TAXONOMY OF EDUCATIONAL OBJECTIVES



NCERT has worked and adapted the blooms' taxonomy with some modification to suit with Indian context.

It clearly mentioned the cognitive, affective and psychomotor domain with their instructional objectives as well as specification





COGNITIVE

- **KNOWLEDGE**
- **UNDERSTAND**
- **APPLICATION**



PSYCHOMOTOR DOMAIN

- **SKILLS**



AFFECTIVE DOMAIN

- **INTEREST**
- **ATTITUDE**
- **APPRECIATION**



AFFECTIVE DOMAIN

- **INTEREST**
- **ATTITUDE**
- **APPRECIATION**



INSTRUCTIONAL OBJECTIVES AND RESPECTIVE SPECIFICATIONS SUGGESTED BY NCERT



OBJECTIVE : I **KNOWLEDGE**

The pupil acquires knowledge of terms, facts, symbols, formula in the field of physical science



OBJECTIVE : I KNOWLEDGE

Specification : The pupil

- Recall facts, dates events etc
- Recognizes facts, incidents etc



OBJECTIVE : 2 **UNDERSTAND**

The pupil understand concept , definition, principles, equations, conventions in the field of physical science



OBJECTIVE : 2 **UNDERSTAND**

Specification : The pupil

- Illustrate a phenomenon
- Gives experimental or theoretical proof.
- Identifies relationship between concepts.
- Discriminates between closely related concepts.



OBJECTIVE : 2 **UNDERSTAND**

Specification : The pupil

- Compare & contrast
- Scrutinizes statement of fact
- Interpret charts
- Cites examples



OBJECTIVE : 2 **UNDERSTAND**

Specification : The pupil

- Classifies items
- Explains a phenomena
- Translate information
- Summarize content



OBJECTIVE : 3 **APPLICATION**

The pupil applies acquired scientific knowledge
in a novel or unfamiliar situation.



OBJECTIVE : 3 APPLICATION

Specification : The pupil

- Suggest hypothesis
- Verify hypothesis
- Solve problem
- Makes improvised aids



OBJECTIVE : 4 **SKILL**

The pupil develops skill in drawing,
observation & manipulation.



OBJECTIVE : 4 SKILL

Specification : The pupil acquire skill in

1. Observation

- Notices relevant details in the specimen
- Read instruments carefully
- Locate the desired parts exactly
- Records observations skillfully.



OBJECTIVE : 4 SKILL

Specification : The pupil acquire skill in

2. Drawing

- Draws diagram neatly.
- Draws diagram with a sense of proportion.
- Labels the diagram neatly, correctly & methodically.
- Draw diagram at a reasonable speed.



OBJECTIVE : 4 SKILL

Specification : The pupil acquire skill in

3. Manipulation or experimental skill

- Take precautions while conducting experiments
- Perform tasks with reasonable speed.
- Make suitable modifications when required.
- Conducts expt as per plan, economizing time & material.



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OBJECTIVE : 5 **INTEREST**

The pupil develops scientific interest in the world of physical science.



OBJECTIVE : 5 **INTEREST**

Specification : The pupil

- Read scientific literature.
- Collects sample, specimen etc.
- Undertake scientific hobbies.
- Improvise models & apparatus.
- Write article on scientific topics.



OBJECTIVE : 5 **INTEREST**

Specification : The pupil

- Enjoys conducting scientific activities like science fair, club etc.
- Enjoys observing nature, plants, animals & natural phenomena.



OBJECTIVE : 6 **ATTITUDE**

The pupil develops scientific attitude, values & qualities in the field of physical science.



OBJECTIVE : 6 ATTITUDE

Specification : The pupil

- Shows intellectual honesty
- Shows objectivity in drawing conclusion from experiments.
- Respect teachers.
- Shows curiosity.



OBJECTIVE : 6 **ATTITUDE**

Specification : The pupil

- Develops a sense of dedication.
- Develops critical thinking.
- Faces hazards in investigation.
- Accepts & rejects things only on the basis of valid reason.



OBJECTIVE : 7 APPRECIATION

The pupil develops scientific appreciation



OBJECTIVE : 7 **APPRECIATION**

The pupil develops scientific appreciation



OBJECTIVE : 7 APPRECIATION

Specification : The pupil

- Shows respect & admiration for great scientists.
- Shows thrill & excitement while performing experiments.
- Shows eagerness to share & convey his joy & thrill to others.



OBJECTIVE : 7 APPRECIATION

Specification The pupil

- Values the sacrifices and painstaking effort made & hardships undergone in the course of their discoveries.
- Enjoys the beauty involved in the systematic structuring of the material and the process of science.

