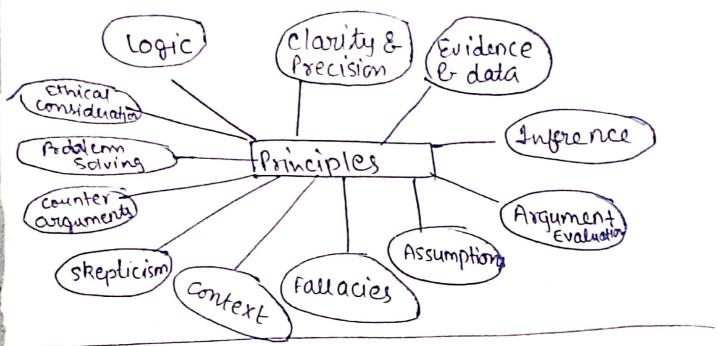
Critical Reasoning - Fundamental cognitive skill hai jo involve karti hai abilility logically think karne ki, Evaluate Karti hai arguments and well informed decisions lene mai!



- 1. Logic Study of valid Reasoning, Provide Karta hai structured framework or Evaluate Karta hai arguments inference brala hai conclusion nikalta hai premises te.
- 2. Tclarity & prousion Baton mein sentences mein clarity honi chaice, Ambiguity & vagueness in language misunderstanding create karte hai.

- 3. Evidence & Data Evidence home chaise & data bhi apri arguments & conclusions ko support Karme ke lie.
- 4. Infrences Conclusion 021 judgement jo Curi dence & reasoning le nikaete hai yet reasonable & well supported Infrences dete hai of avoid karte hai unwavrented assumptions ko.
- 5. Arguments Evaluation Evaluate Karti hai Orguments ko unki strength & validy ko determine Karti hai.
- 6. Assumptions are unitated beliefs or Premises underlie arguments
- 7. Fallacies-(Errors) read to flawed arguments
- 8. context context (Reason) of issue or problem.
- 9. <u>Skepticism</u> questioning information, claims, arguments Rather than accepting them at face value.
- 10. Com Counterarguments oppose Karina. 10 april Engage Karina un points ko jo Scimne walo ki baton ko oppose Karte h
- 11. problem solving formulate Karti hai hypotheri, Evaluate sevidences & make informed decision.
- 12. Ethical considerations moral implication of decisions & actions, justice & well being of individuals & society.

Critical Reasoning Ek systematic approach hai des disciplined bhi jo sochti hai decision leti hai, communicale Karti hai

# Types of Reasoning

- 1. Analyzing Breakdown Karena argument Ko pièce of reasoning or pats mein. Identify Karte hai premises, conclusion assumptions on logical structure of argument ko.
  - Goal -) underestand karena Kaise argument Bani hai on sound hai ki valid.
- 2. Evaluating acess Karti hai Quality
  or validity of Reasoning determine
  Karti hai Evidence & logic jo use
  hue hai argument mein strong or
  relevent or subficient hai ki nhi condusion
  ko support karme ke lie.
- 3. Integrated ability hoti hai exquencent

  Ko synthesize & integrate Karine ki information

  Ko various sources se or critical thinking apply Karle hai solve Karine ke lie complex

  and multidimensional problems

  include tarks -> analyzing data, Evaluate arguments & making decision based on a combination of Quantiture & ovalitive info.

### uncritical

- · No discipline
- · Not curious to know anyting
- · accepts & think Whatever comes to mind witout fact and Evidence
- · Not look for alternative of relient Info
  - · Closed minded thinking
  - · get distract

## critical · discipline · curious to know

- · Assume facts, Evidence analyzing the lavidence in full
- Adapat into followed by different approach
- · Open minded

detail.

clear focus.

Scientific Reasoning - specific form of critical reasoning jo ki scientific inquiry mein use hoti hai. Formulate Karti hai hypothesis, Experiments - conduct hote hai, collection & analyzing data, draw & valid conclusion. It emphesizes objectivity & scientific method.

Strategic - planning & making decisions with Goal in mind consider karta hai various factors, risks & potential autumes, often in complex or competitive situations

Analytical - focuses on breaking down .

'complex problems into simpler for

Easier understanding & problem solving.

Involves using data, Statistics, Maths

To draw conclusions.

Baises

#### UNIT-2

### Arguments

- · set of statements (Premises + Conclusion)
- · premises provide Evidens, Reasons, & grounds For conclusion.
- conclusion is what is being argued for.
- It attempts to draw some logical connection 6/w premises & conclusion.
- Express an infrence: a process of Reasoning from the touth of premises to touth of conclusion.

### (Premises)

> statements being offered in support for the conclusion (Reasons & facts providing facts) Evidence for conclusion.)

Conclusions | - The statement being argued for.

Statement is can be determined to posses or lack truth (True on fals) Example It is below 40'f outside: I like Barccoli Etructure conclusion Premises

### Deductive orgaments -

- if the premises are true, then the conclusion must also be true. (Strict logical pattern)
  - " <u>Certainity</u> provide strong certainity. It Premises are true the conclusion is garunteed to be true. No room of Error.

Premise 1: All men are mortal.

Premis 2: socrates is man

conclusion: socrates is mortal

#### Inductive:

- · Structured in a way that the premise Provide Evidence on Support for the conclusion, conclusion is not garunteed to be true. (Probabilistic)
- · Provide weaker certainity It
  Premises are true, there is always some level
  of uncertainity associated with conclusion.
- · Example:

Prenise: the sun has trisen in the East weighay as long as we can remember Conclusion: The sun will rise in East tomorrow. Valid

· when the conclusion logically follow from its the premises are true, the conclusion must premises. be true. It has sound logical structure.

. It'n not about truth but it's about the logical Relationship between Prenuses

and conclusion

· can have both true or false premises but as long as the structure is valid it Rensures that if the premises are true, the conclusion must be true.

Invalid: -

. An augument is invalid when condition doesn't logically follow from the premises it premises are true, the conclusion can Still be false

. Fails to Establish the truth of its conclusion

Based on its premises.

[EX]: Premise 1: All cats have tails. Premis 2: Fluffy has a tail conclusion: flufty is a cat.

Sound argument

· Valid & has all true premises.

(Validity): Premises (true) -> conclusion (true)

Truth of premises : must be true statements

also based on accurate & reliable information.

Premises 1: All humans are mammals. Premises 2: John is a human. Conclusion: Therefore john is a mammal.

unsound.

· ya to invalid hota hai ya 1 ya 1 se jyada false premise, ho skte hai!! (done cheeze blui ho skte hai)

· logical flaw ho skta hai ya false information hoti hai.

· cannot be relied upon to provide a valid or true conclusion.

For Exp pr 1: All bird, can Swim under water.
1. 2: Penguine are Binds.
conclusion: Penguings Can fly.

#### Describe

- · Answers Questions like what, when, where, who.
- · Reg Good observation skills.
- & Focus on presenting the information about subject.

#### Explain

Answers Question like How and why

Keg both observation & analytical skills.

Focous on underlying Principles or mechanism.

#### Illustrations

Ly visual repersentations (in the form of drawing, pictures or other visual aids) used to clarify Explain or Enhance the understanding of concept, idea, Process or object

- commonly used in various forms of communications. including textbooks, Education materials, 600 ks, Presentation websites and more.

L) Primary Goal to make complex on abstract concepts more accessible & comprehensible to audience.

|Summary |

- 4) concise & condensel version of a longer text, document speech or piece of content that captures main points key ideas & Essential into while ommitting unnecen - intermor details. & Examples.
- 4) It capture the Essence of the original content accurately & importially avoid personal opinions and interpretations.
- With should be clear 2- well organized & Vary in length depending on depth of information.