COGNITIVE DOMAIN

Processing Information

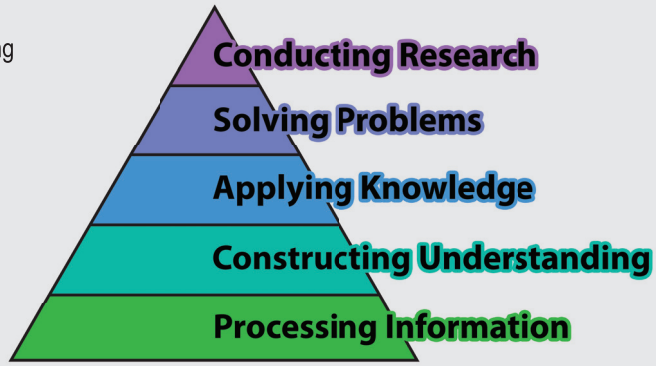
Collecting Data *(from a disorganized source)*
Observing, Listening, Skimming, Memorizing, Recording Measuring

Generating Data *(to fill a void)*
Predicting, Estimating, Experimenting, Brainstorming

Organizing Data *(for future use)*
Filtering, Outlining, Categorizing, Systematizing

Retrieving Data *(from an organized source)*
Recognizing patterns, Searching, Recalling, Inventorying

Validating Information *(for value)*
Testing perceptions, Validating sources, Controlling errors, Identifying inconsistency, Ensuring sufficiency



Constructing Understanding

Analyzing *(characterizing individual parts)*
Identifying similarities, Identifying differences, Identifying assumptions, Inquiring, Exploring context

Synthesizing *(creating from parts)*
Joining, Integrating, Summarizing, Contextualizing

Reasoning *(revealing meaning)*
Interpreting, Inferring, Deducing, Inducing, Abstracting

Validating Understanding *(for reliability)*
Ensuring compatibility, Thinking skeptically, Validating completeness, Bounding

Applying Knowledge

Performing with Knowledge *(in real context)*
Clarifying expectations, Strategizing, Using prior knowledge, Transferring

Modeling *(in abstract context)*
Analogizing, Exemplifying, Simplifying, Generalizing, Quantifying, Diagramming

Being Creative *(in new contexts)*
Challenging assumptions, Envisioning, Linear thinking, Divergent thinking, Transforming images, Lateral thinking

Validating Results *(for appropriateness)*
Complying, Benchmarking, Validating

Solving Problems

Identifying the Problem *(to establish focus)*
Recognizing the problem, Defining the problem, Identifying stakeholders, Identifying issues, Identifying constraints

Structuring the Problem *(to direct action)*
Categorizing issues, Establishing requirements, Subdividing, Selecting tools

Creating Solutions *(for quality results)*
Reusing solutions, Implementing, Choosing alternatives, Harmonizing solutions

Improving Solutions *(for greater impact)*
Generalizing solutions, Ensuring robustness, Analyzing risks, Ensuring value

Conducting Research

Formulating Research Questions *(to guide inquiry)*
Locating relevant literature, Identifying missing knowledge, Stating research questions, Estimating research significance, Writing measurable outcomes

Obtaining Evidence *(to support research)*
Designing experiments, Selecting methods, Extracting results, Replicating results

Discovering *(to expand knowledge)*
Testing hypotheses, Reasoning with theory, Constructing theory, Creating tools

Validating Scholarship *(for meaningful contribution)*
Defending scholarship, Responding to review, Confirming prior work, Judging scholarship