



















### **Flashcards**

Using the five senses to find out about objects and events: their characteristics, properties, differences, similarities, and changes.

Speculating what may occur in the future based on prior knowledge, observations, and reasoning.

**Predicting** 

Hypothesizing

Modeling

Investigating

Using Instruments

A strategy to make meaning or wonder about uncertainties.

Making educated guesses or predictions based on evidence that must be tested through experimentation to establish credibility.

Locating and using several sources, developing self-reliance in acquiring library and Internet skills. Constructing physical/concrete or abstract representations of ideas, objects or events to clarify explanations or demonstrate relationships; used to reinforce concepts, demonstrate learning, and /or illustrate phenomena which cannot be directly observed.

Asking, interviewing, and corresponding to gain primary information.

Gathering background information, formulating problems / hypotheses.

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Interviewing

**Questioning** 

Using logic to draw conclusions from the results of investigating/problemsolving.

Using the five senses to find out about objects and events: their characteristics, properties, differences, similarities, and changes.

### **Flashcards**

Checking, adjusting, or determining an instrument's accuracy by comparison with a standard.

Collecting evidence through measurements, facts, figures, pieces of information, statistics (either historical or derived by calculation), experimentation, surveys, etc.

**Gathering Data** 

**Demonstrating** 

Constructing

Inventing

Experimenting

Measuring

**Calibrating** 

Assigning numbers to observations, e.g., metric units, time, student-generated units, using appropriate measuring devices and techniques.

Setting up apparatus, making it work, describing parts and functions, illustrating scientific principles.

Recording

Noting, documenting, tabulating, charting; working systematically, working regularly.

Working systematically, regularly

organizing for future, seeing possible

results.

Putting together component parts; to build or erect.

Planning

The overall plan or strategy by which hypotheses / research questions and technological problems are answered (with or without innovation).

Designing something useful, for the first time, through the use of the imagination, ingenious thinking and / or experimentation.

Designing

Carrying out a designed investigation to test a hypothesis or answer a question.

**Evaluating** 

Reviewing

Comparing

Looking for similarities.

Seeing implications and relationships, discerning causes and effects, locating new problems.

Looking for differences.

Recognizing good and poor features; judging and assessing.

Putting things into groups and subgroups, identifying categories, deciding between alternatives.

Picking out important items, memorizing, associating.

Employing major headings and subheadings; using sequential, logical organization.

Engaging in oral, written, or any other appropriate form of communication with others.

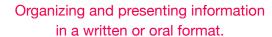
Visually representing data.

Clearly describing, clarifying main points, and focusing on the "why" and/ or "how" of the issue, concept or idea.

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Discussing

Explaining



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Conveying information (e.g., questions, observations, experimental report) by graphical means.

The activity of either an individual or group that involves analyzing, judging the importance of, and making connections to the learning experience.

Making meaning of concepts or processes by organizing them into key facts and ideas and clearly conveying them to others.



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Observing

Questioning

Searching

Interviewing



**Predicting** 

**Predicting** 

Hypothesizing

Modeling

Investigating

Using Instruments

Questioning

**Hypothesizing** 

Searching

**Modeling** 

Interviewing

Investigating

**Inferring** 

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Calibrating

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**Designing** 

**Experimenting** 



**Matching Cards** 

Analyzing

**Evaluating** 

Contrasting

Comparing

Classifying

Outlining

Graphing

Comparing

**Analyzing** 

**Contrasting** 

**Evaluating** 

Classifying

Reviewing

**Outlining** 

**Discussing** 

**Graphing** 

**Explaining** 

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Discussing

Explaining



Reporting

## **Matching Cards**

Organizing and presenting information in a written or oral format.

Reporting

Reflecting

Reporting

Writing

Reflecting

**Teaching** 

# Writing

Conveying information (e.g., questions, observations, experimental report) by graphical means.

## Reflecting

The activity of either an individual or group that involves analyzing, judging the importance of, and making connections to the learning experience.

## **Teaching**

Making meaning of concepts or processes by organizing them into key facts and ideas and clearly conveying them to others.

## **Matching Cards**

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**Predictin** 

Hypothesizing

Investigating

Using Instruments

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