

ask better questions this way:

- What kind of results are needed?
- Who will be informed?
- Am I ~~re~~ answering the question being asked?
- How quickly does a decision need to be made?

Week 2

What is Analytical Skill?

Analytical Skills are qualities & characteristics associated with solving problems using facts.

Analytical Skills are based on these

C U T D S

Curiosity	Understand Context	Techn mind	Duty Design	Duty Strategy
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Curiosity: Wanting to learn something

Context: It is the condition in which something exists or happens

There is something out of context — but you don't pay attention.

Understanding **FULL PICTURE** is critical.)

Technical

Mindset: An ability to break things down into smaller steps or pieces and work with them in an orderly & logical way.

Data Design:

How to organize information

Data Strategy:

The management of people, processes & tools used in data analysis.

Analytical thinking

Identifying & Defining a problem and then solving it by using data in an organized Step-by-Step manner.

Analytical thinking is based on

V	S	P	C	B
Visualization	Strategy	Problem Orientation	Correlation	Big Picture + Detailed Thinking

So, these are the ways you can think analytically!

Visualization: ♥

Strategy: With so much data available having a strategic mindset is key to staying focused and on track.

Helps improve the quality & usefulness of data we collect.

Problem

Oriented

Approach: Used to describe, identify & solve problem

(doing something keeping a goal in mind)

Correlation:

Correlation • does not equal to causation

Just because of two pieces of data trending in same direction doesn't mean they are related.

Big-Picture

thinking: It helps to zoom out and see possibilities & opportunities.

Leads to new ideas & innovation

• Detailed thinking is all about figuring out all of the aspects that will help to execute a plan

" In data analytics solutions are not always right in front.

You need to think Critically to find Right Questions to Ask "

Also Creatively to get new & unexpected answers.

5 Whys

Other question: Where are the gaps in our process?

Gap Analysis:-

A method for examining & evaluating how a process works currently in order to get where you want to be in the future.

Data Driven decision making :

It is ~~is~~ involved using facts to guide business strategy.

With data we can:

- gain valuable insights
- Verify theories / assumption
- Understand Opportunities or challenges
- Help make a plan.
- Much more...

Data Driven decision gives you greater confidence about the choice

Helps become more proactive when an opportunity presents himself. Save time + effort when working towards goal.

Duty Driven Decision

is based

upon

C U T D S

Curiosity

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Context

: The more you learn about the power of duty, the more curious you're likely to become.

You will start to see patterns in everyday life.

→ Analysts use context to make predictions.

→ This natural first step is great becoming duty driven.

Technical

Mindset : Gut feelings. DAs have gut feelings too!

They have trained themselves to build on these feelings and use more technical approach to explore them.

" They do this by seeking out facts, putting them to work by analysis & using insights to make decisions "

Data

Design : Data ^{is} designed in such a logical way makes it easy for DAta to access, understand & make the most of available information.

Data

Strategy : Made of People, Processes, Tools

Gives - High Level view of path you need to achieve goals.