

**CRITICAL
THINKING &
COMPLEX
PROBLEM
SOLVING
SUPERHIGHWAY**



**BOOKLET HANDOUT
DESIGNED & PRINTED BY**



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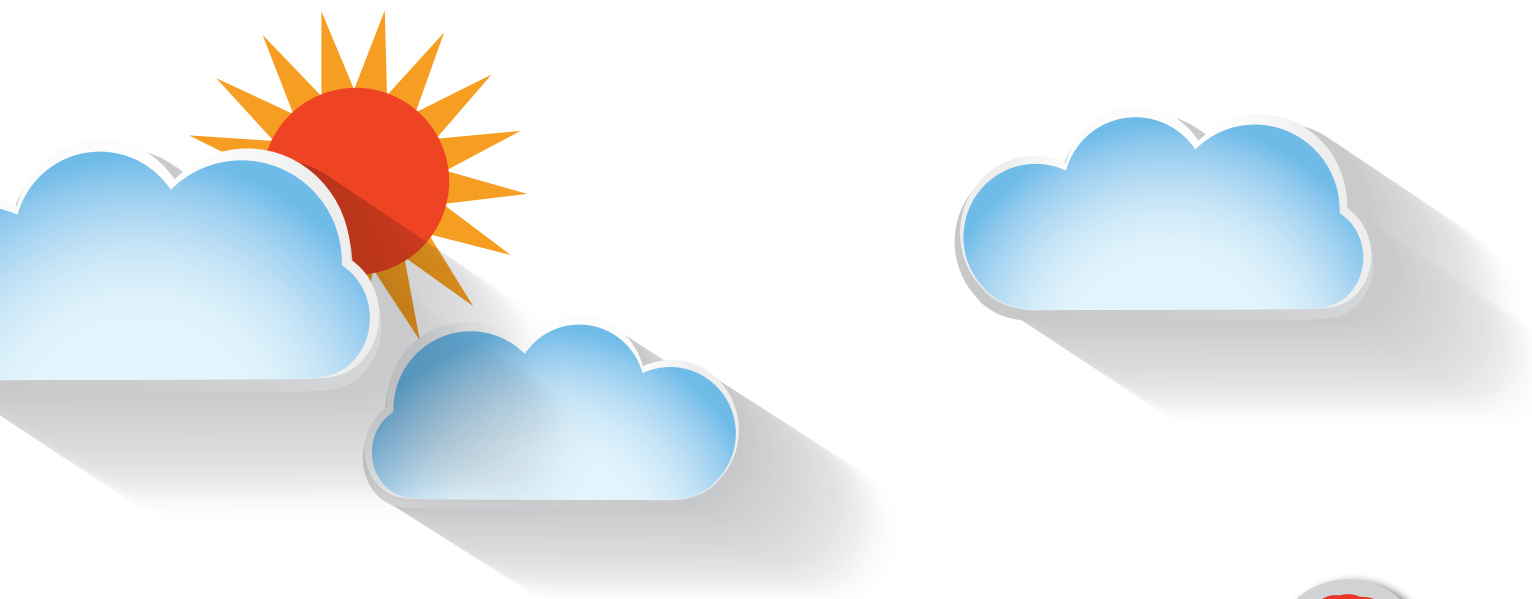
CLARIFY → *the actual*
employ → **REASON**
perform with precision...and
WIN





powered by

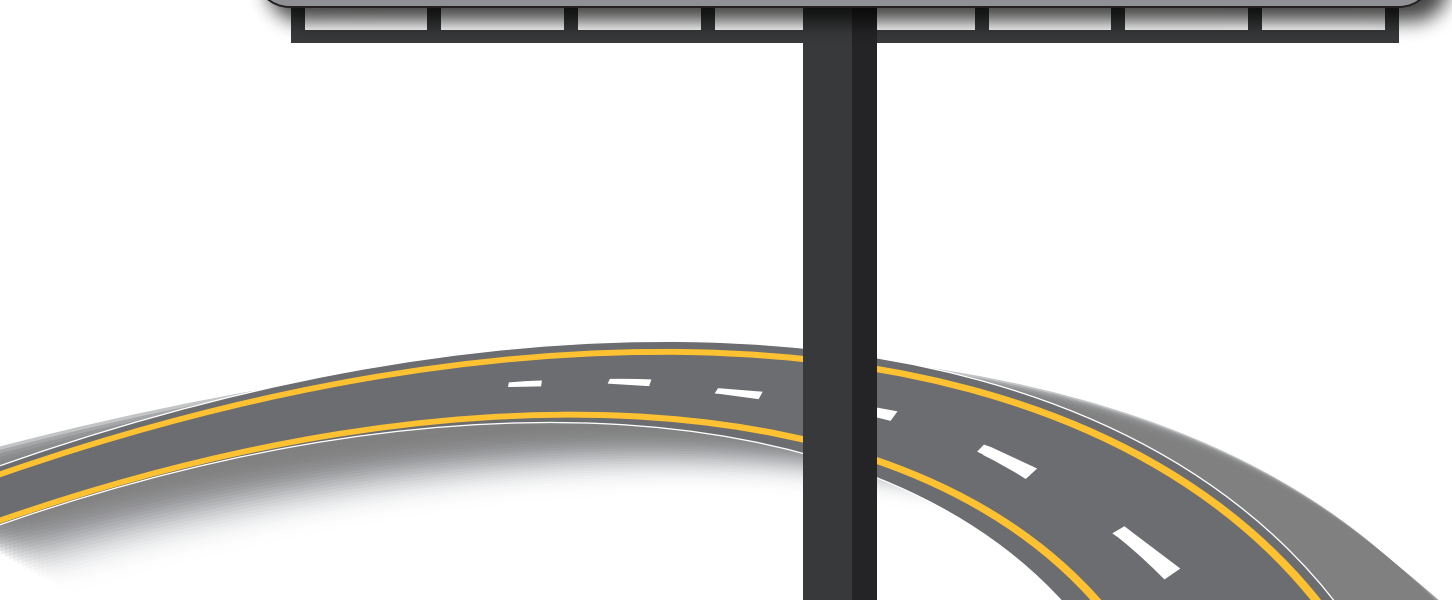
innovation and creativity

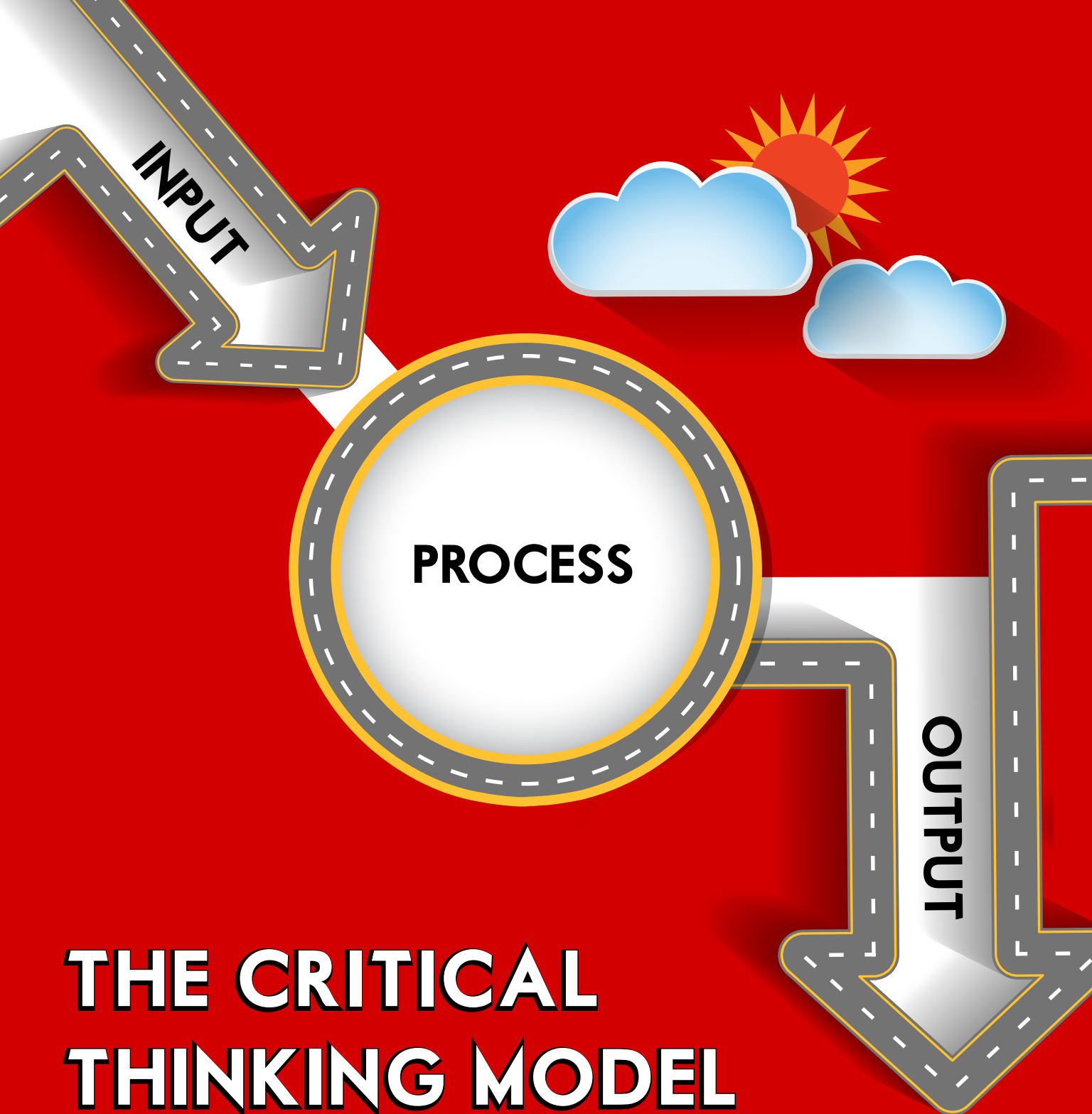


CRITICAL THINKING



*is a skill that can be learned,
lends itself to practice, and when
used with intent will
produce amazing results.*

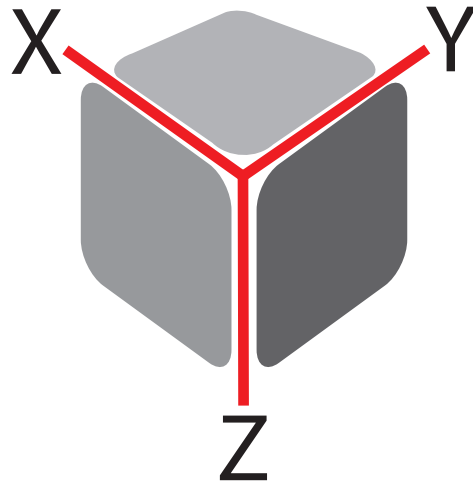




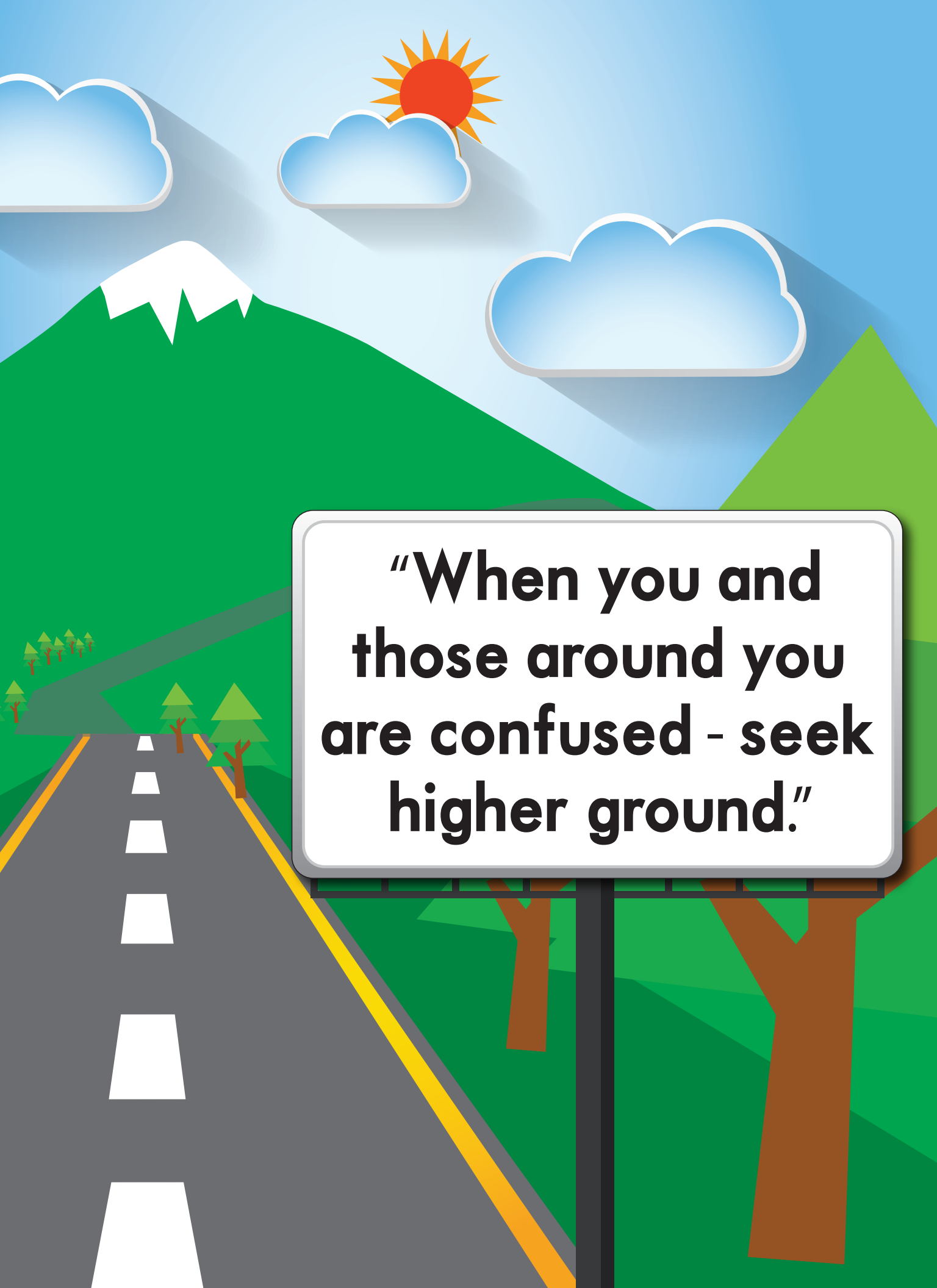
**THE CRITICAL
THINKING MODEL
IS ORGANIZED LIKE
ANY SYSTEM**



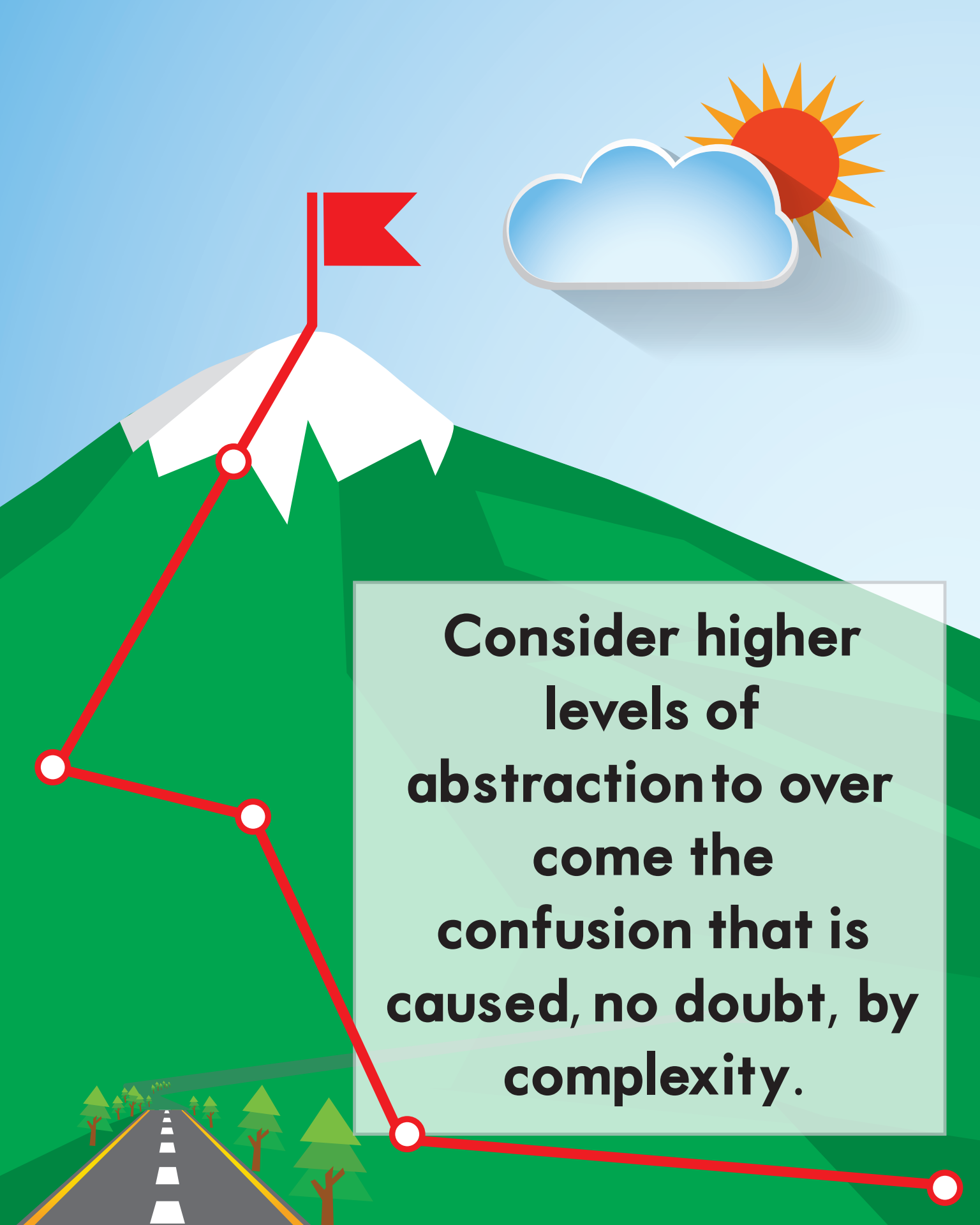
**THE ZONE
OF ASSURED SUCCESS**



**IS BASED ON ANALYSIS
NOT OPINION**



"When you and those around you are confused - seek higher ground."

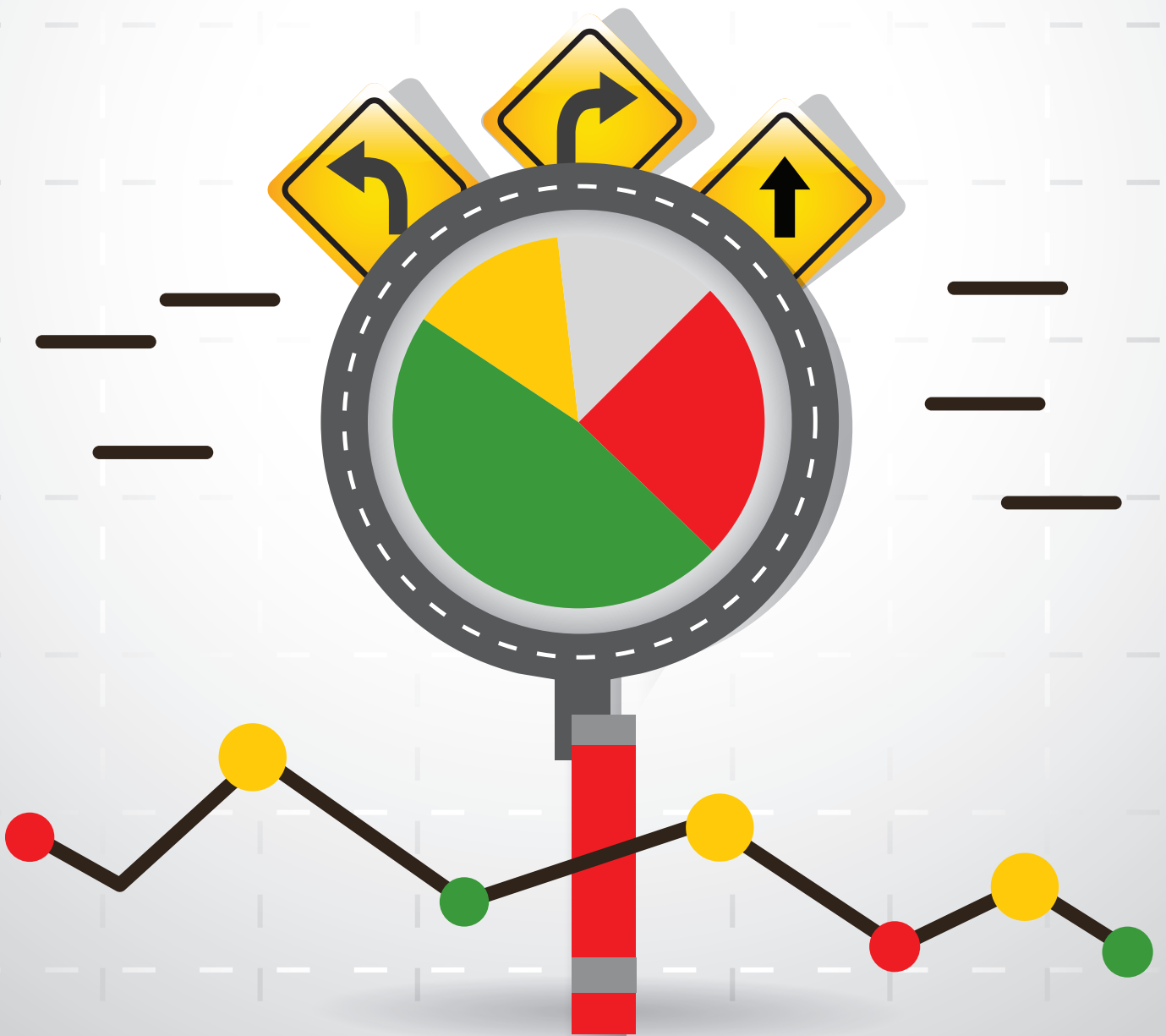


Consider higher levels of abstraction to overcome the confusion that is caused, no doubt, by complexity.



ANALYTICS

a whole new world of actual



CHUNKING



**ABSTRACT
CLUSTERING**



The
Playing Field



NEXT EXIT



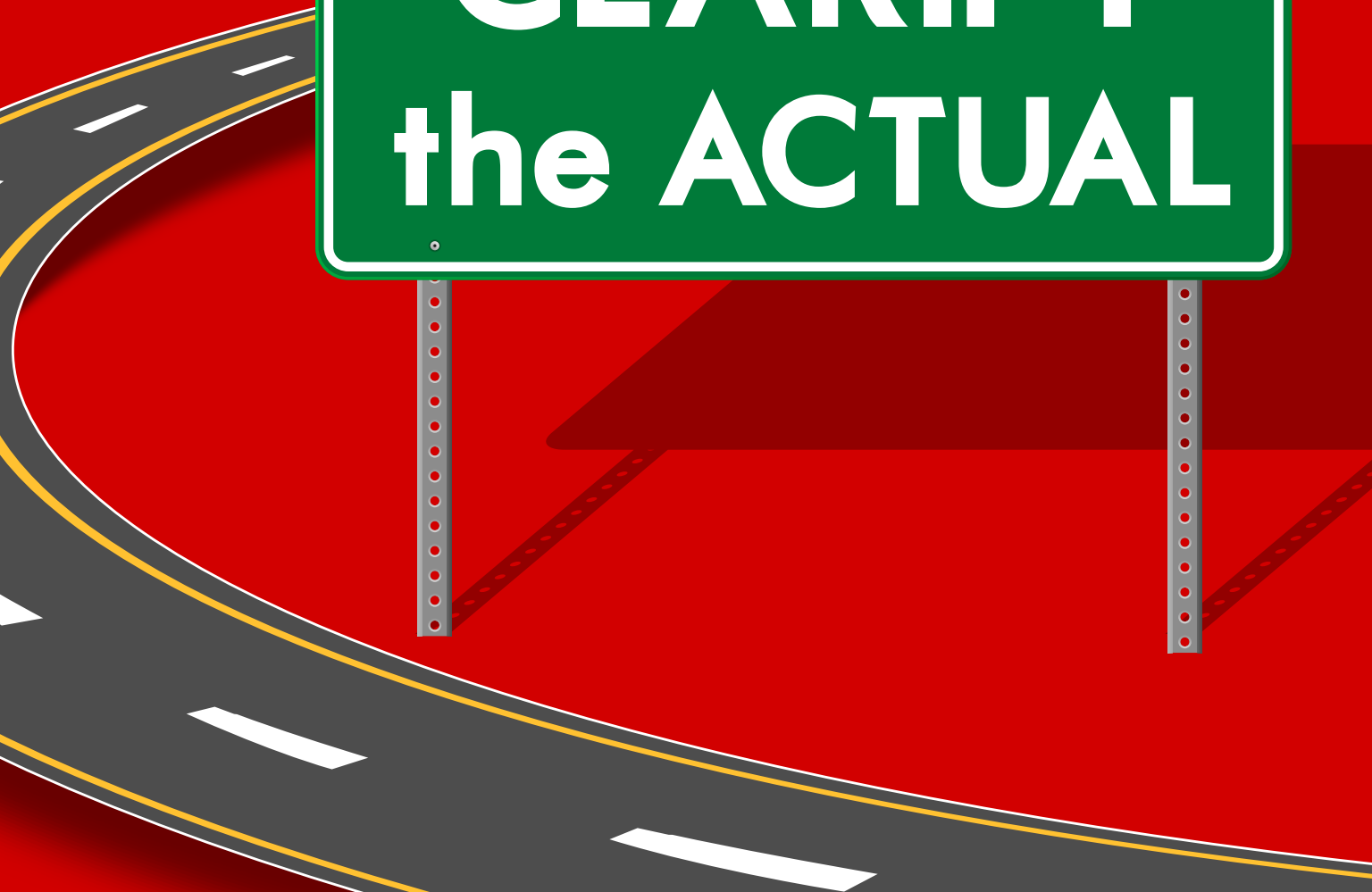
NOW PLAYING

Critical Thinking
in the
Time of Confusion

A lifelong learning process



NEXT STOP
CLARIFY
the **ACTUAL**





MINDSET:
Detect all
incoming signals



CAUTION

CAUTION

CAUTION

CAUTION

CAUTION



**Do not ignore
that which
may run
counter
to closely
held beliefs.**

CAUTION

CAUTION

CAUTION

CAUTION

CAUTION

**Discriminate between signals.
Consider if the signal
rises to event status.**

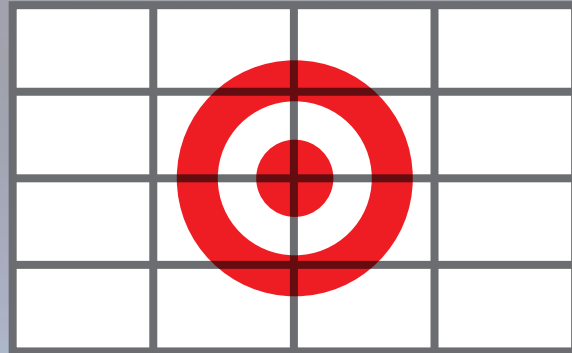
**SIGNIFICANT
or
NON SIGNIFICANT**





**A
mission
critical
event
should
always
be given
priority.**

Orient the event, or mission critical event within the problem space, within the proper playing field.



PROBLEM SPACE



JUST AHEAD

REASON



REASONING

Analytic
vs.
Ad Hoc



REASONING

Ad Hoc Thinking will
almost always
lead to
FAILURE



**An analytic process contains
three steps which are:**

- 1. ANALYZE**
- 2. EVALUATE**
- 3. DECIDE**



Next a utility function is applied calculated by multiplying the items value by the probability that it will be available

$$U = V \times P$$


The goal is to
**MAXIMIZE
UTILITY**





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produce amazing results.*



CAPTAIN KEVIN M. SMITH

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EXPERT IN CRITICAL THINKING

Captain Smith has developed a Critical Thinking Model for Air Combat Operations, Commercial Airline Operations and business and personal applications. As an aviator, Captain Smith was the first to develop training programs to improve the critical thinking of airline pilots. Captain Smith also performed pioneering work in the field of Operational Decision Theory. His extensive published works includes numerous articles, book chapters, books, handbooks and tutorials.

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