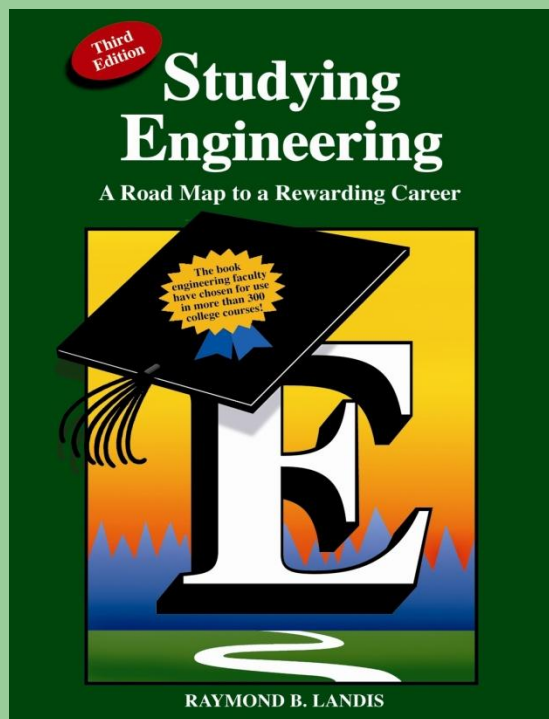


Chapter 6

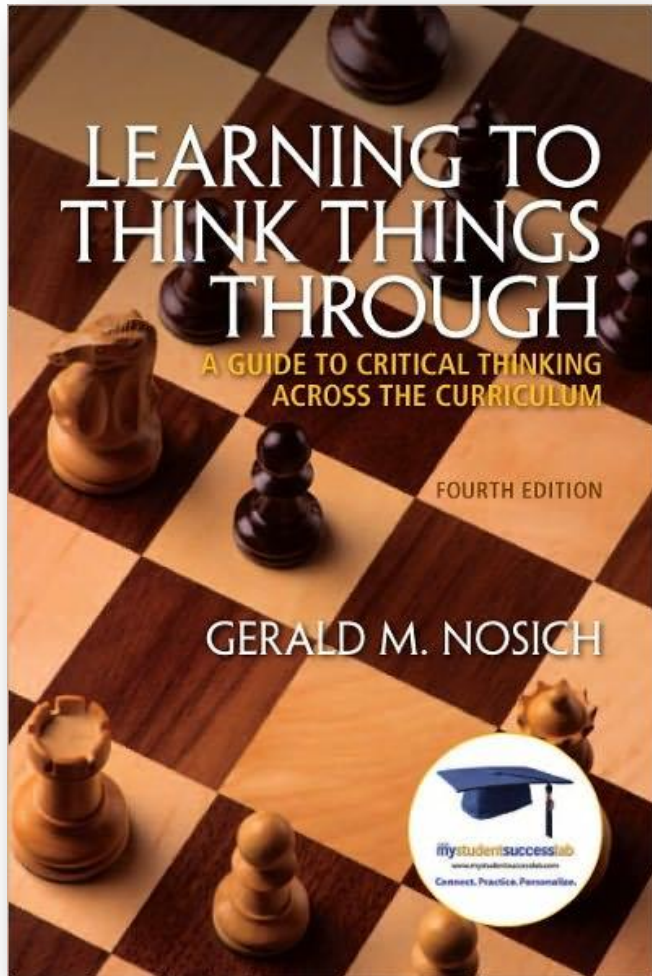


Critical Thinking Skill

Reminder

1. Presentation in person due on 4/10/2013 at the beginning of the lab
2. Final draft of Introductory paper is due on 4/10/2013 by 5:50pm
3. HW2 is due on Wednesday, 4/10/2013, by 9:00am
4. Journal2 is due on Sunday, 4/14/2013, by 9:00am
5. Essay1 is due on Sunday, 4/14/2013, by 9:00am

Lecture Overview



- What is critical thinking?
- Benefits
- Concepts

What is it?

“Critical thinking is reasonable, reflective thinking that is focused on deciding what to believe or do.”

Robert Ennis

“Critical thinking is thinking about your thinking, while you are thinking, in order to make your thinking better.”

Richard Paul

Benefits



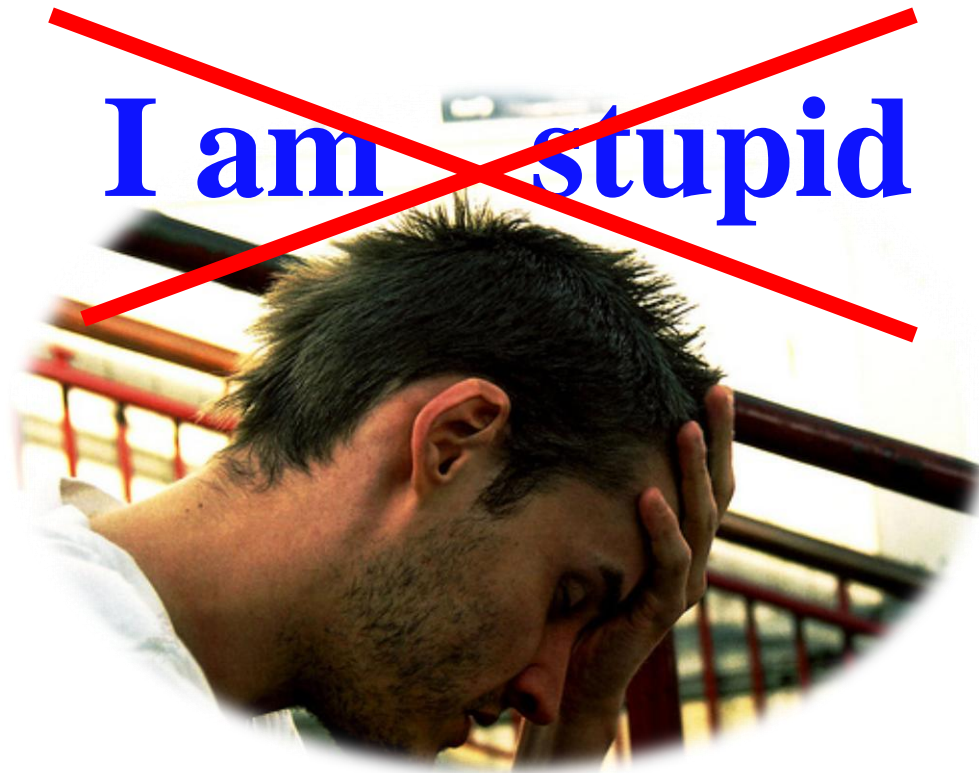
Helps to make thoughtful decisions

Benefits



Helps to envision alternative paths

Benefits



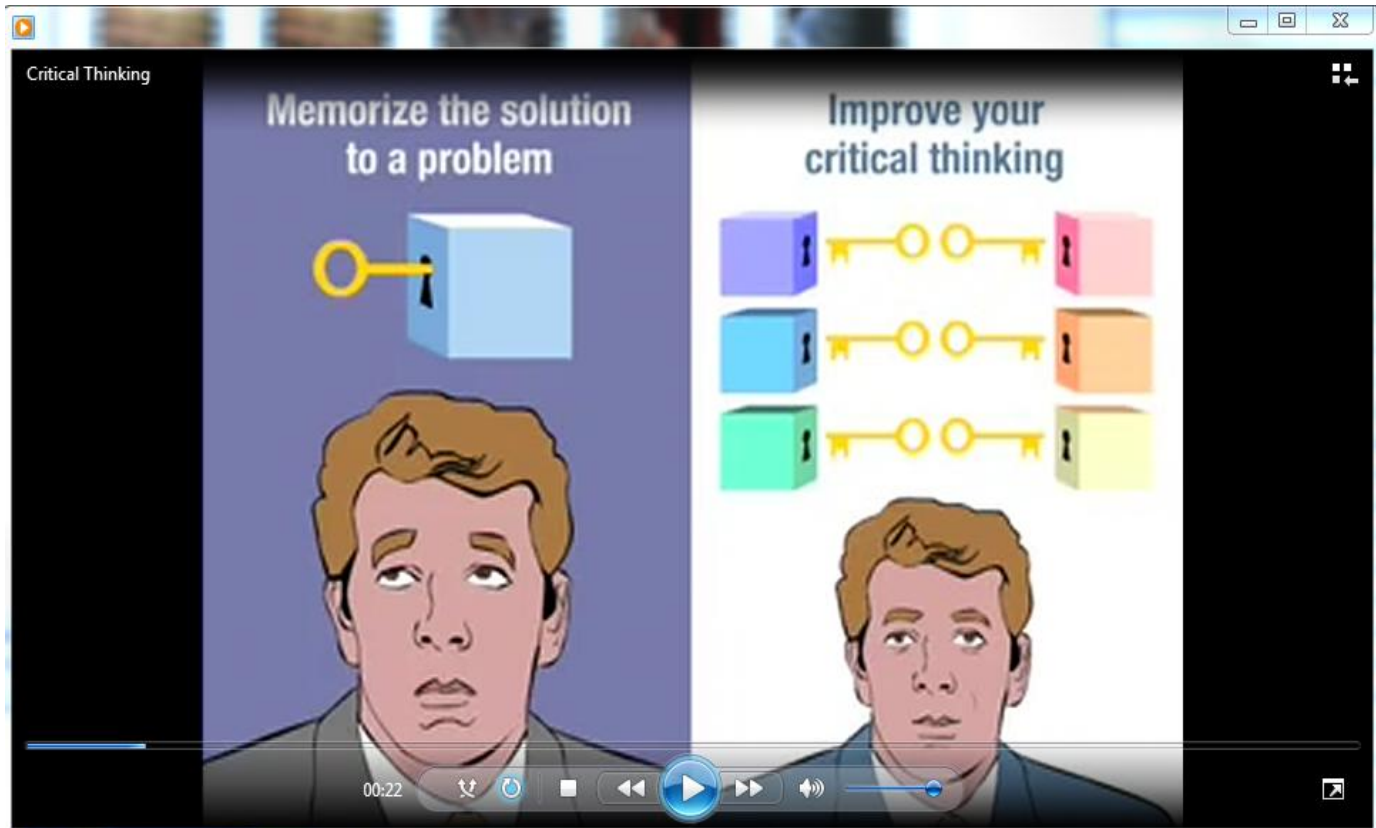
Helps to identify and discard wrong beliefs and assumptions

Benefits



Will make you adept in thinking
things through

Benefits



<http://www.youtube.com/watch?v=-s3I51mpNZ0>

Three Parts of Critical Thinking

Asking the questions



Reasoning it out

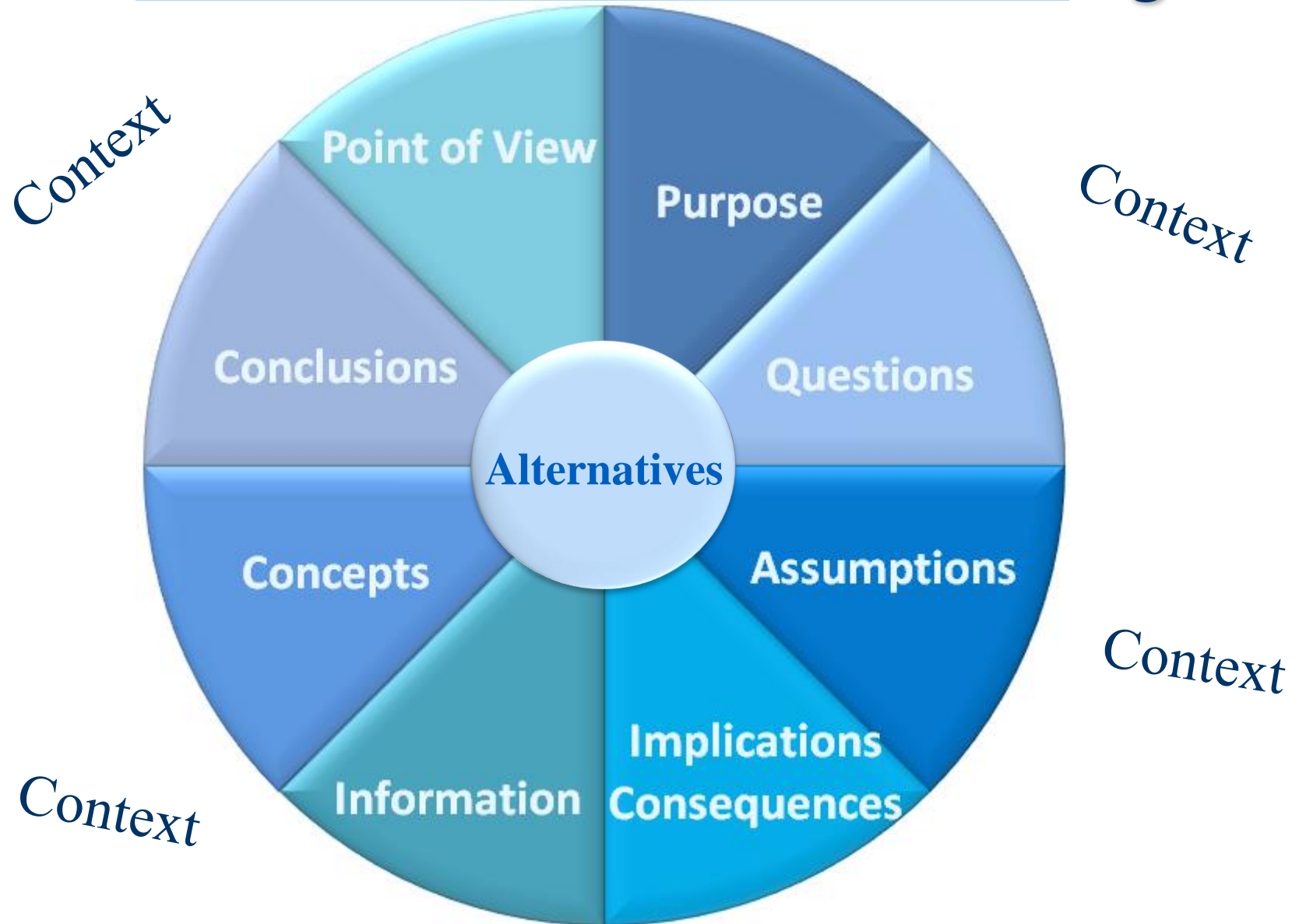


Believing the results



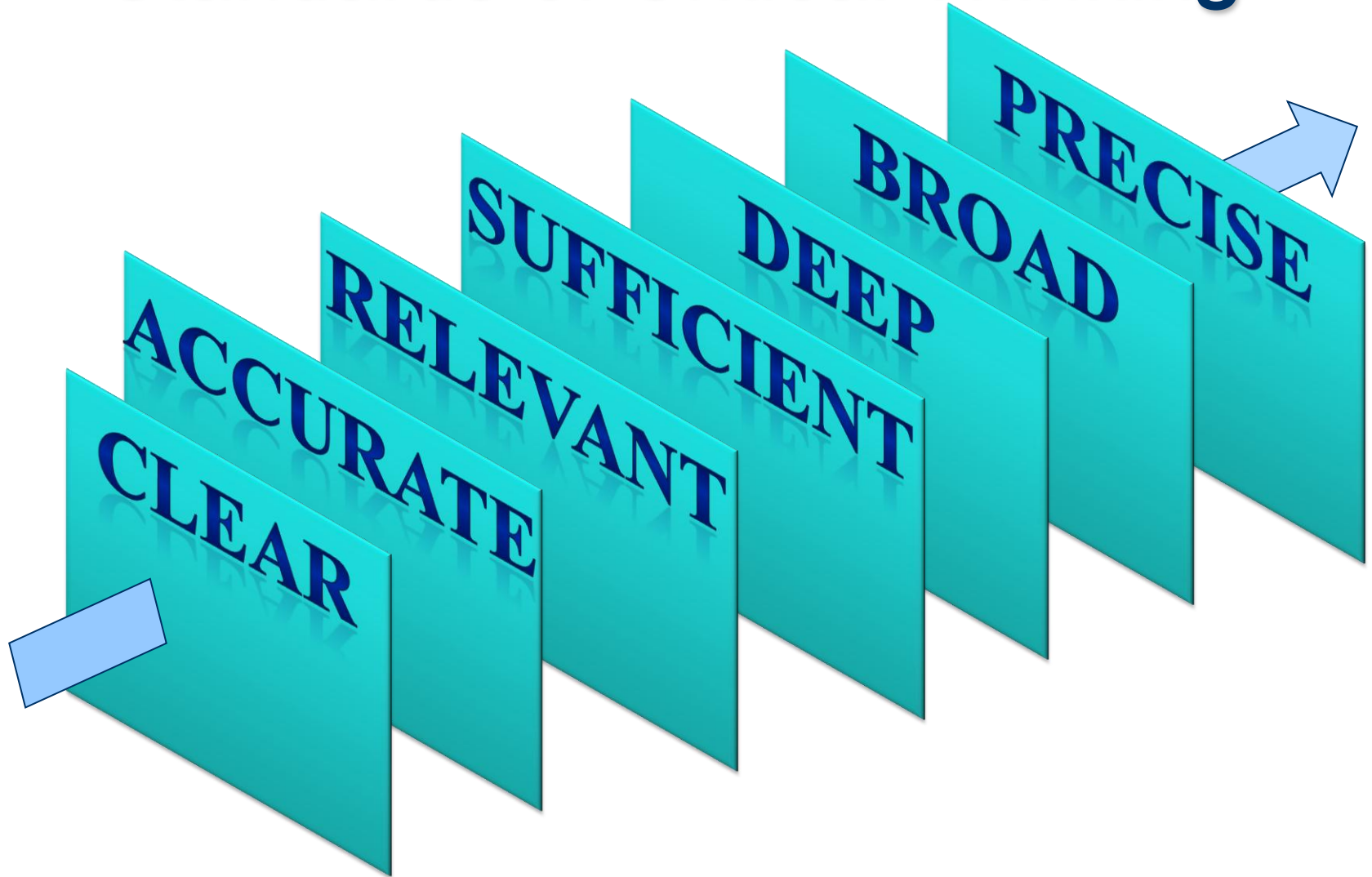
Concepts

Elements of Critical Thinking



Concepts

Standards of Critical Thinking



Standards

Standards of Critical Thinking



Elements of Critical Thinking



Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What is my **purpose** of becoming an Engineer?

1. To have an interesting and satisfying career
2. To make good money
3. To contribute to society
4. To continuously grow intellectually

Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What are the main **assumptions** I make about being an Engineer?

1. Engineering is a challenging career
2. Engineers make good money
3. Engineering benefit society
4. Engineering involves intellectual and creative development

Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What are the main **implications and consequences** of becoming an Engineer?

1. To have an interesting and satisfying career
2. To make good money
3. To contribute to society
4. To continuously grow intellectually

Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What **information** do I have about becoming an Engineer?

1. To become an Engineer, I have to graduate from an accredited university
2. I found out the tuition expenses
3. I researched on line information about salaries
4. I researched on line hiring opportunities

Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What are the main **concepts** I use about becoming an Engineer?

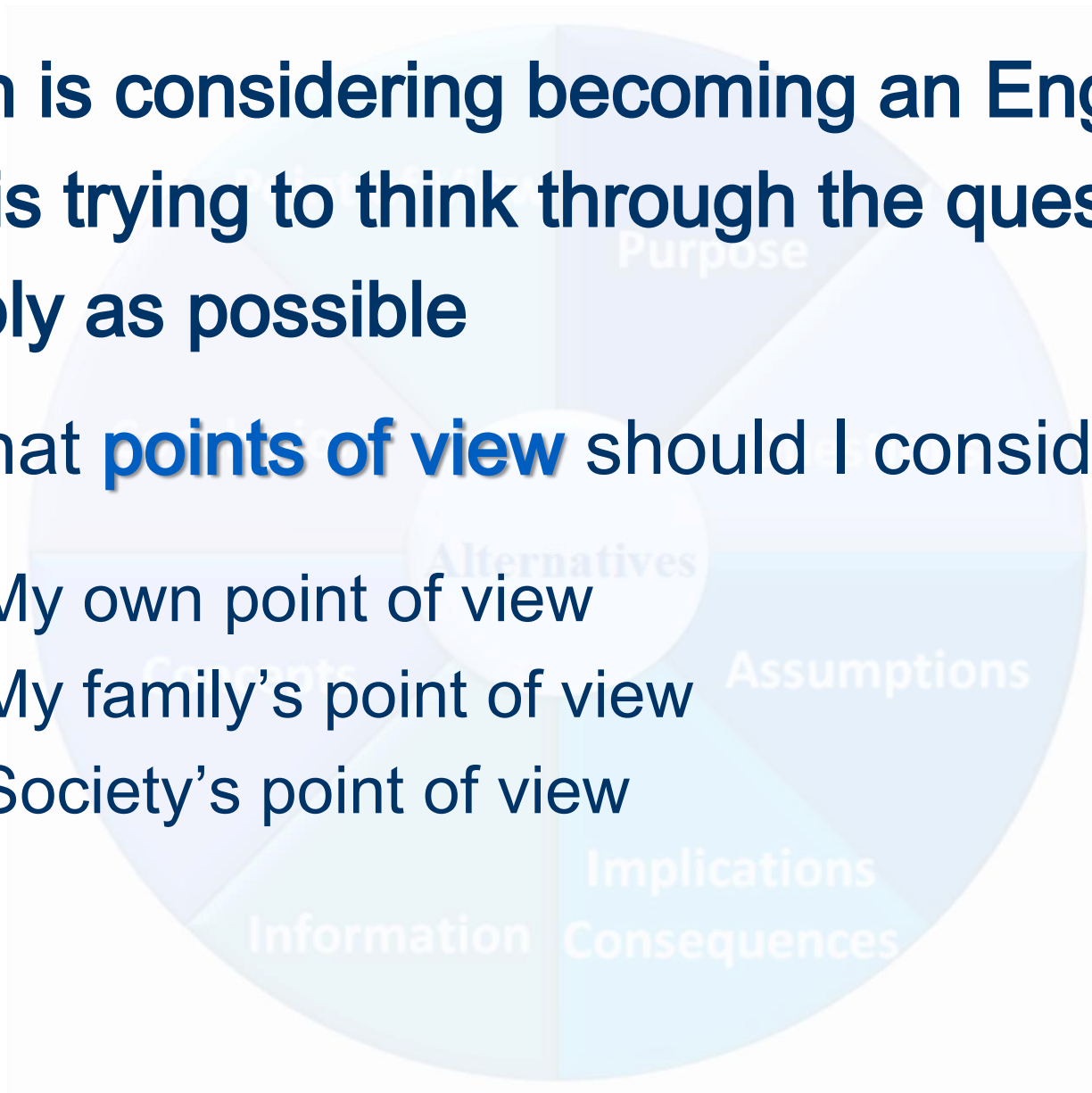
1. Engineering career
2. Engineering degree
3. Job satisfaction
4. Financial security
5. Self-respect and prestige

Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What **points of view** should I consider?

1. My own point of view
2. My family's point of view
3. Society's point of view



Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What **alternatives** are there?

1. Starting working somewhere else
2. Choosing some other profession
3. Joining family's business

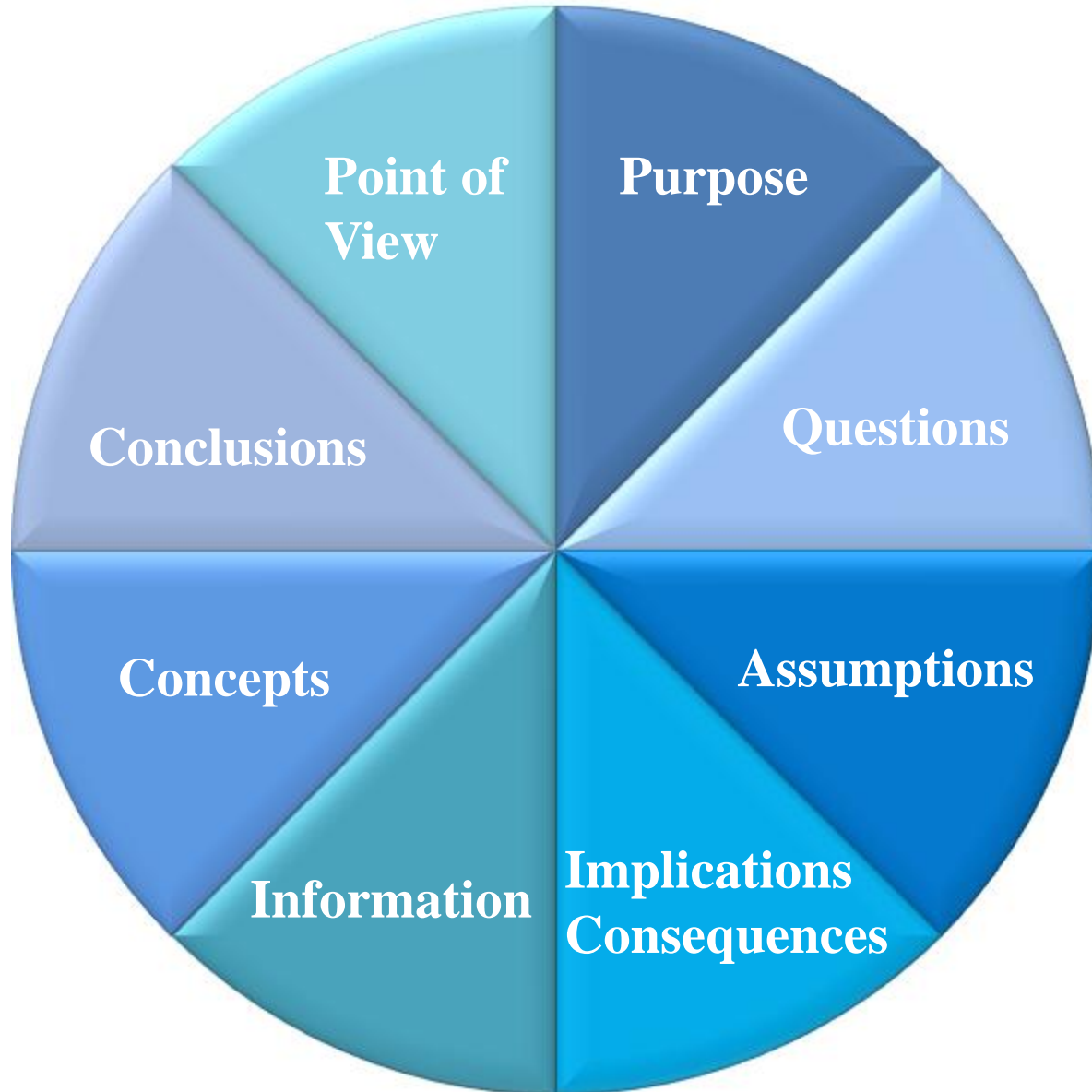
Elements

Sean is considering becoming an Engineer and is trying to think through the question as deeply as possible

What **conclusions** should I draw?

1. I want to become an Engineer
2. I am going to pursue Engineering degree
3. I am convinced that Engineering career suits me

Elements of Critical Thinking



Group Work

Analyze with 8 elements

Every person is offered a hero's journey to take, and more than ever before, people are taking responsibility for their own wisdom and adventure.

In *The Wizard of Oz*, the journey down the Yellow Brick Road is representative of everyone's journey in life. Most of us spend a lot of years looking for wizards who will give us the wisdom, the courage and the heart we need to go on. In the movie, the wizard tells Dorothy and her friends that they had it all along. It was inside them.

The knowledge of how to swim or ride a bicycle cannot be passed along, or taught in a seminar – it must be discovered in a deeply personal way by the individual. The same is true for the wisdom of staying on the journey.

Keep track of your own journey. Be aware of it; think of it often. Have it big to you. Have it be beautiful. It is not there to scare you; it's there to excite you.

Reinventing Yourself, Steve Chandler