



"ROOMMATE PROBLEMS"

Author: Melody Niemann Illustrator: Alex O'KeeFe

Editors: Brian Barnes, Ph.D., Rush Cosgrove, Ph.D.

Artistic Director. Mith Barnes Creative Director. Brian Barnes

SPECIAL THANKS TO:

The University of Louisville Ideas to Action (i2a) (http://louisville.edu/ideastoaction/)

The Foundation For Critical Thinking (www.criticalthinking.org)

Patty Payette Edna Ross
Cathy Bays Richard Paul
Linda Elder Gerald Nosich
Cindy Saling Andrew Segal

Cameron Kalegi

ABOUT THIS PROJECT

This project was Funded by a SUN grant From The University of Louisville's Ideas to Action i2a critical thinking initiative (: http://louisville.edu/ideastoaction/programs/grants).

All writers and illustrators were paid for their efforts through a stipend at the time of writing or illustration. The program seeks to infuse a deep sense of fair-minded critical thinking in the tradition of Richard Paul and The Foundation for Critical Thinking.

Each issue contains one story written by an undergraduate student at The University of Louisville who, at the time of the writing, had taken one Critical Thinking course utilizing the Paul-Elder Critical Thinking Framework or had received some personalized Critical Thinking training in the Framework. Illustrators were also undergraduate students, and most of them received no critical thinking training prior to the project. The comic scripts were evaluated by representatives at The Foundation For Critical Thinking prior to illustrators seeing them. Brian Barnes and Mith Barnes are responsible For all work on the Final comic books. Brian is responsible For the analyses behind Mith's attractive color-coding. At the time of satisfying the grant, Brian Barnes is a visiting scholar with The Foundation For Critical Thinking, a Senior Lecturer at The University of Louisville's Department of Philosophy, and a sustainability advocate at U of L He also has teaching gigs at Bellarmine University, Spalding University, Simmons College, and Indiana University Southeast. Mith Barnes is a Lecturer in Bellarmine University's Interdisciplinary Core and the Department of Philosophy at Indiana University Southeast.

For printed copies of this comic book, for consultation regarding your own project, or for educational events, please contact Brian Barnes at brian. barnes@louisville.edu, at 502-338-1338, or on Facebook.

Examples of how to use the comic books to make critical thinking explicit can be Found at https://youtu.be/JsLzgM3KAT4



HOW TO USE THIS COMIC BOOK TO LEARN OR TEACH CRITICAL THINKING IN THE PAUL-ELDER FRAMEWORK

Each issue of Adventures in Critical Thinking is an opportunity to practice identifying Features of the Paul-Elder Critical Thinking Framework. There are several levels to this practice built into the comic.

1. IDENTIFICATION OF THE PAUL-ELDER CRITICAL THINKING VOCABULARY

Readers can use the theory pages, located at the front of each issue, to learn the basic pieces of Paulian Critical Thinking Theory: The Elements of Thought, the Intellectual Standards, the Intellectual Traits, and two kinds of biases, Ecogentric Bias and Sociocentric Bias. Story cells and thought balloons on many pages are color-coded to prompt readers to identify one or more features of Paul-Elder CT occurring in that cell. The color codings are not meant to be exhaustive, however, so other aspects may be in that cell. The activity avoids being didactic, since the particular vocabulary term is not identified by the coloration, only the group. Readers will have to interpret the language on the page and compare it to the appropriate theory page in order to gain the basic of knowledge of how critical thinking can fit into the scenario in the comic book. The basic interpretations built into the color coding in each comic are explicated for teachers and students at the project's YouTube channel.

2. RECONSTRUCTION

After readers have identified the critical thinking terms in each comic, he or she may analyze the situation to reconstruct the thinking of the characters in the comic book. This will entail a combination of Elements, Standards, Traits, and Biases, and there may be multiple constructions.

3. SELF REFLECTION

The reader could relate this to his or her personal narrative, to his or her own Egocentric and Sociocentric biases, or to other relevant personal systems and ideologies.

4. JUDGMENT

The reader can decide whether he or she agrees with the thinking of the characters after he or she has completed an analysis.

Of course, many other uses can be found. The participants in the project hope that this will be a fun and accessible way to learn critical thinking for students of all age groups and appropriate education levels.

In a classroom setting, these easy to digest comics could be used for group work, For individual practice, or for interactive teaching opportunities. At a minimum, interactive, engaged groups can always participate in at least six learning modalities while engaging with the comics:

- 1. Reading about the thinking and behaviors in the comics.
- 2. Writing or blogging about the thinking in the comics.
- 3. Speaking about the thinking in the comics with others.
- 4. Listening to others speak about the thinking in the comics.
- 5. Thinking about the thinking in the comics.
- 6. Role Playing the thinking in the comics in an effort to develop Intellectual Empathy.



KEEP CALM **AND** USE CRITICAL THINKING

"Need to think something through?

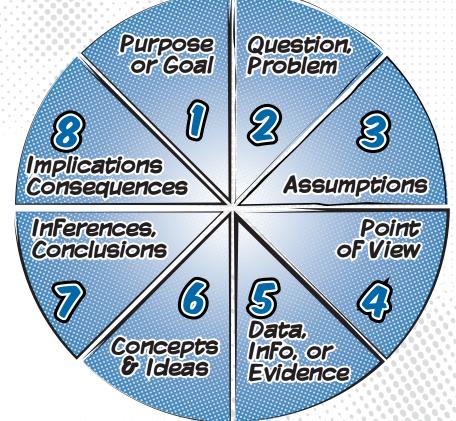
Have a problem and want to think about it in a new way?

Check out the interactive critical thinking tool that enables you to apply the Paul Elder approach to real life problems.

Interactive Tool at this URL:

http://www.criticalthinking.org/pages/elements-and-standards-learning-tool/783

THE ELEMENTS OF THOUGHT



- 1) All reasoning has a PURPOSE or GOAL.
- 2) All reasoning attempts to settle a <u>QUESTION</u> or solve a PROBLEM.
- All reasoning is based on <u>ASSUMPTIONS</u>.
- 4) All reasoning is done from some <u>POINT OF</u> <u>VIEW</u>.
- 5) All reasoning is based on <u>DATA</u>, <u>INFORMATION</u> and <u>EVIDENCE</u>.

- 6) All reasoning is expressed through, and shaped by, CONCEPTS and IDEAS.
- 7) All reasoning contains INFERENCES or interpretations by which we draw CONCLUSIONS and give meaning to data.
- 8) All reasoning leads somewhere or has <u>IMPLICATIONS</u> and <u>CONSEQUENCES</u>.

NIELLECIVAL STANDARDS

ASKING QUESTIONS OF OURSELVES OR OTHERS HELPS US EVALUATE INTELLECTUAL STANDARDS

Could you elaborate on that point? Could you express that point in other way? Could you give me an illustration or an example?

Is that really true?
How could we check that? How could we Find out if that is true?

precision Could you give me more details? Could you be more specific?

How is that Reference connected to the question? How does that bear on the issue?



Does your answer address the complexities in

the question? Are you taking into account the problems in the question? Are you dealing with the most significant factors?

Do we need to consider another point of view? Is there another way to look at this question? What would this look like From the point of view of...?

really make sense? Does that Follow From the Facts at hand? How does that Follow?

Is this
the most
important problem
to consider? Is this the
central idea to Focus on? Which of
these facts are most important?

Are we considering all relevant viewpoints in good Faith? Are we distorting some information to maintain our biased perspective? Are we more concerned about our vested interests than the common good?

MIELLEGIUAL TRAITS

Intellectual Humility

Awareness of the limits of one's knowledge, sensitivity to bias and prejudice, lack of intellectual conceit

Having rational control of one's intellectual beliefs, values, and inferences, to think for oneself

Autonomy

Intellectual Integrity

Ability to be true to one's own thinking; to be consistent in applying intellectual standards, to admit inconsistencies in one's own thought and action

Awareness of the need to face and fairly address difficult ideas, beliefs or viewpoints

Intellectual Courage

Confidence in Reason

Confidence that the higher interests of humankind will be best served by using reason, faith that people can learn to think for themselves

Ability to put oneself in the place of others, willingness to reason intellectual from premises, assumptions, and ideas other than our own

Willingness to pursue reason in spite

of difficulties or frustrations,
adherence to rational principles

Perseverance despite opposition, willingness
to struggle with problems over time

Willingness to treat all viewpoints alike, adherence to Fairmindedness
intellectual standards apart
From one's own advantage

THE PROBLEM OF EGOGENTRIC THOUGHT

INSTEAD OF USING INTELLECTUAL STANDARDS IN THINKING, WE OFTEN USE SELF-CENTERED PSYCHOLOGICAL STANDARDS TO DETERMINE WHAT TO BELIEVE AND WHAT TO REJECT. HERE ARE THE MOST COMMONLY USED PSYCHOLOGICAL STANDARDS IN HUMAN THINKING.

It's true because...

....IBELIEVE IT!

This is: Innate egocentrism! I assume that what I believe is true even though I have never questioned the basis For many of my beliefs.

OOO WE BELIEVE IT!

This is: Innate sociocentrism! I assume that the dominant beliefs of the groups to which I belong are true even though I have never questioned the basis for those beliefs.

This is: Innate wish Fulfillment! I believe in whatever puts me in a positive light. I believe what "Feels good," what does not require me to change my thinking in any significant way, or what does not require me to admit I have been wrong.

OCO HAVE ALWAYS BELIEVED IT!

This is: Innate self-validation! I have a strong desire to maintain beliefs that I have long held, even though I have not seriously considered the extent to which those beliefs are justified by the evidence.

occuts in my own interest to believe it?

This is: Innate selfishness! I believe whatever justifies my getting more power, money, or personal advantage even though these beliefs are not grounded in sound reasoning or evidence.

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MOST PEOPLE DO NOT UNDERSTAND THE DEGREE TO WHICH THEY HAVE UNCRITICALLY INTERNALIZED THE DOMINANT PREJUDICES OF THEIR SOCIETY OR CULTURE. SOCIOLOGISTS AND ANTHROPOLOGISTS IDENTIFY THIS AS THE STATE OF BEING "CULTURE BOUND." THIS PHENOMENON IS CAUSED BY SOCIOCENTRIC THINKING, WHICH INCLUDES:

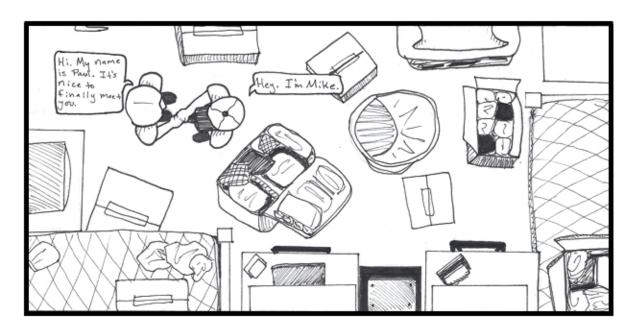
The uncritical tendency to:

- place one's culture, nation, religion above all others.
- select self-serving positive descriptions of ourselves and negative descriptions of those who think differently from us.
- internalize group norms and beliefs, take on group identities, and act as we are expected to act without the least sense that what we are doing might reasonably be questioned.
- blindly conform to group restrictions (many of which are arbitrary or coercive).

The Failure to:

- think beyond the traditional prejudices of one's culture.
- study and internalize the insights of other cultures (improving thereby the breadth and depth of one's thinking).
- distinguish universal ethics From relativistic cultural requirements and taboos.
- realize that mass media in every culture shapes the news from the point of view of that culture.
- think historically and anthropologically (and hence to be trapped in current ways of thinking).
- see sociocentric thinking as a significant impediment to intellectual development.

SOCIOCENTRIC THINKING IS A HALLMARK OF AN UNCRITICAL SOCIETY. IT CAN BE DIMINISHED ONLY WHEN REPLACED BY CROSS-CULTURAL, FAIRMINDED THINKING — CRITICAL THINKING IN THE STRONG SENSE.





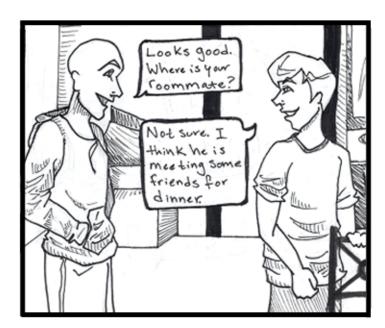








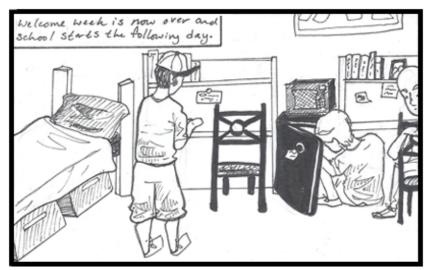
























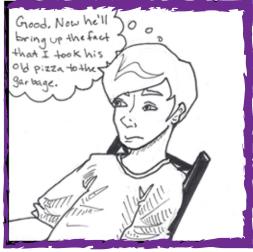




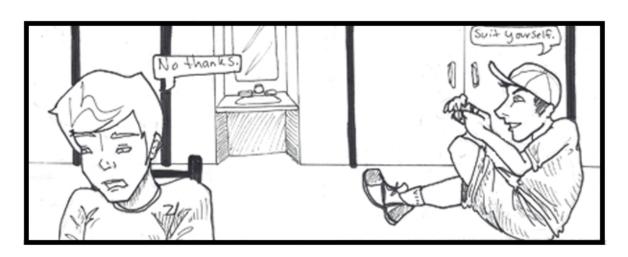






















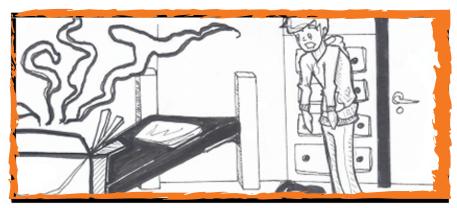




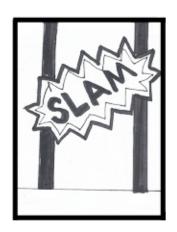
















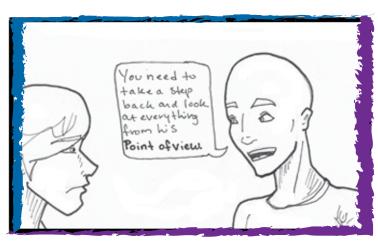














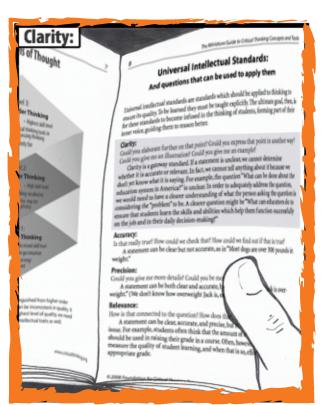


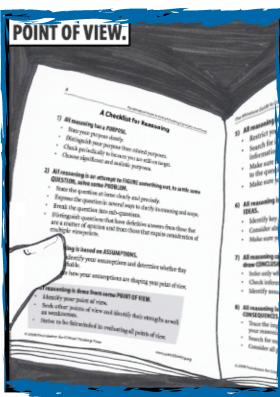


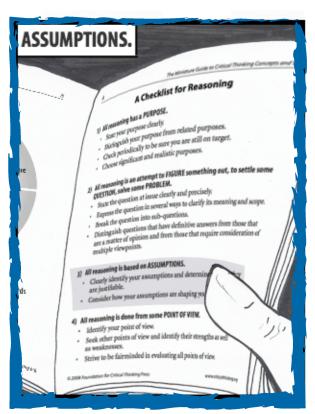


















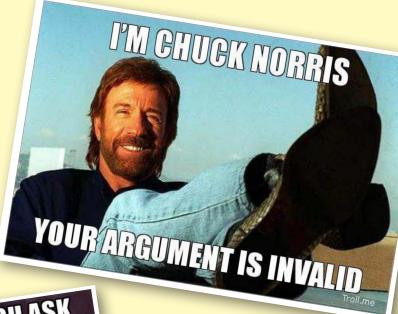


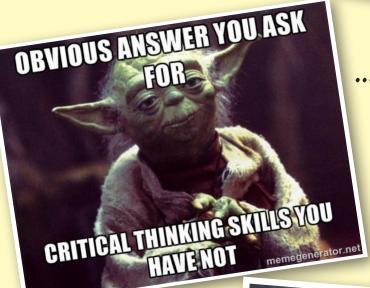






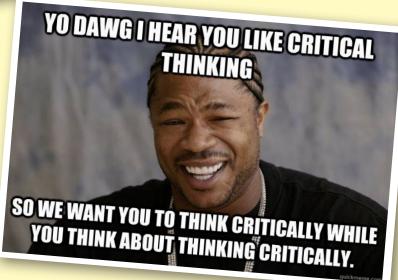
Sometimes, making an argument is easy...





...the rest of us might have to work at it a little.

Good thing there are tools for that!





Visit the The Critical Thinking Community online

Check out the interactive tool at: http://www.criticalthinking.org/pages/elements-and-standards-learning-tool/783





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to be a

Critical Thinker

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