

Grass Valley Professional Development Systems Overview “What’s your system?”

August 9, 2020

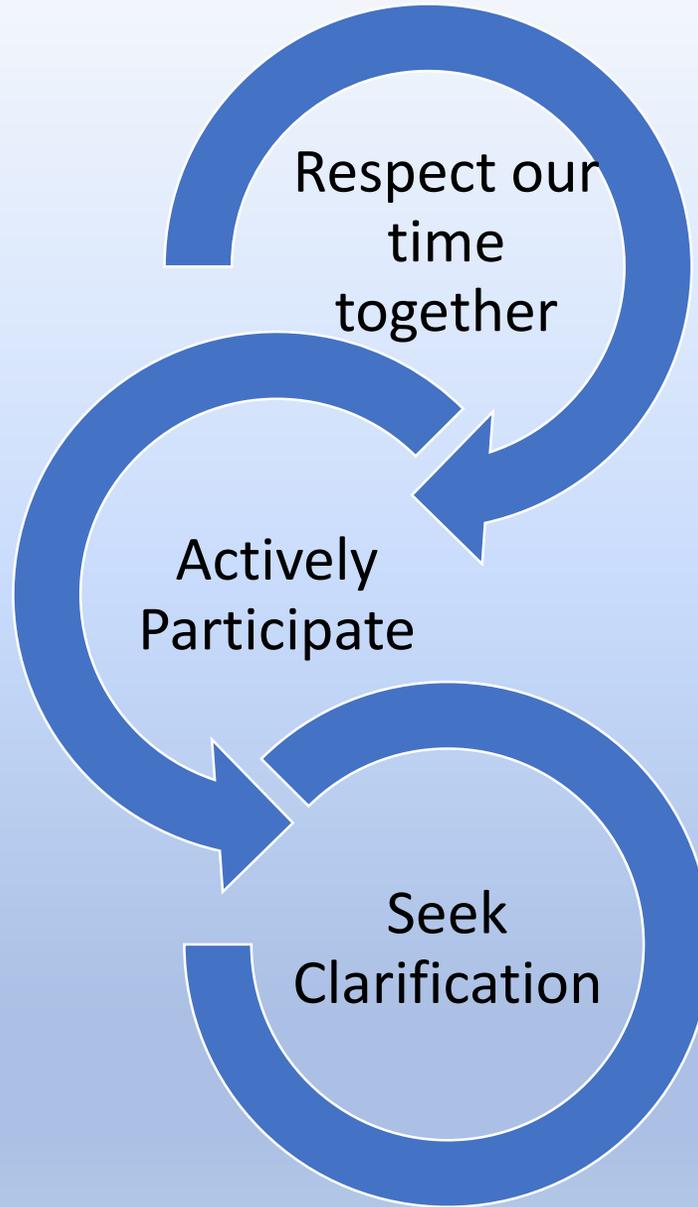
Faciliatator: Mary Quinnan

CROSSED

UNCROSSED



NORMS



*All Voices are
Important*



<https://www.youtube.com/watch?v=0nrzDdceMME>

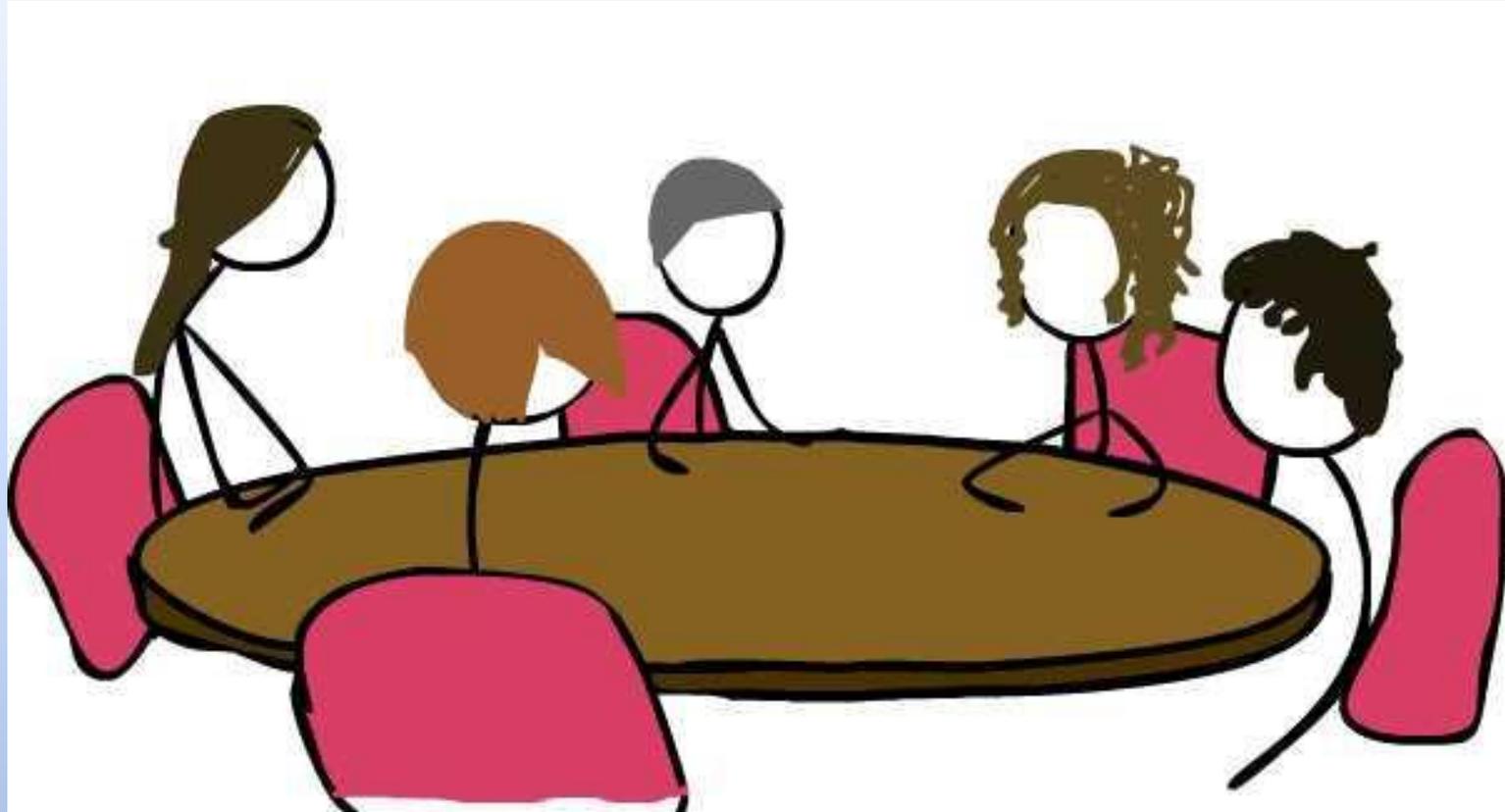
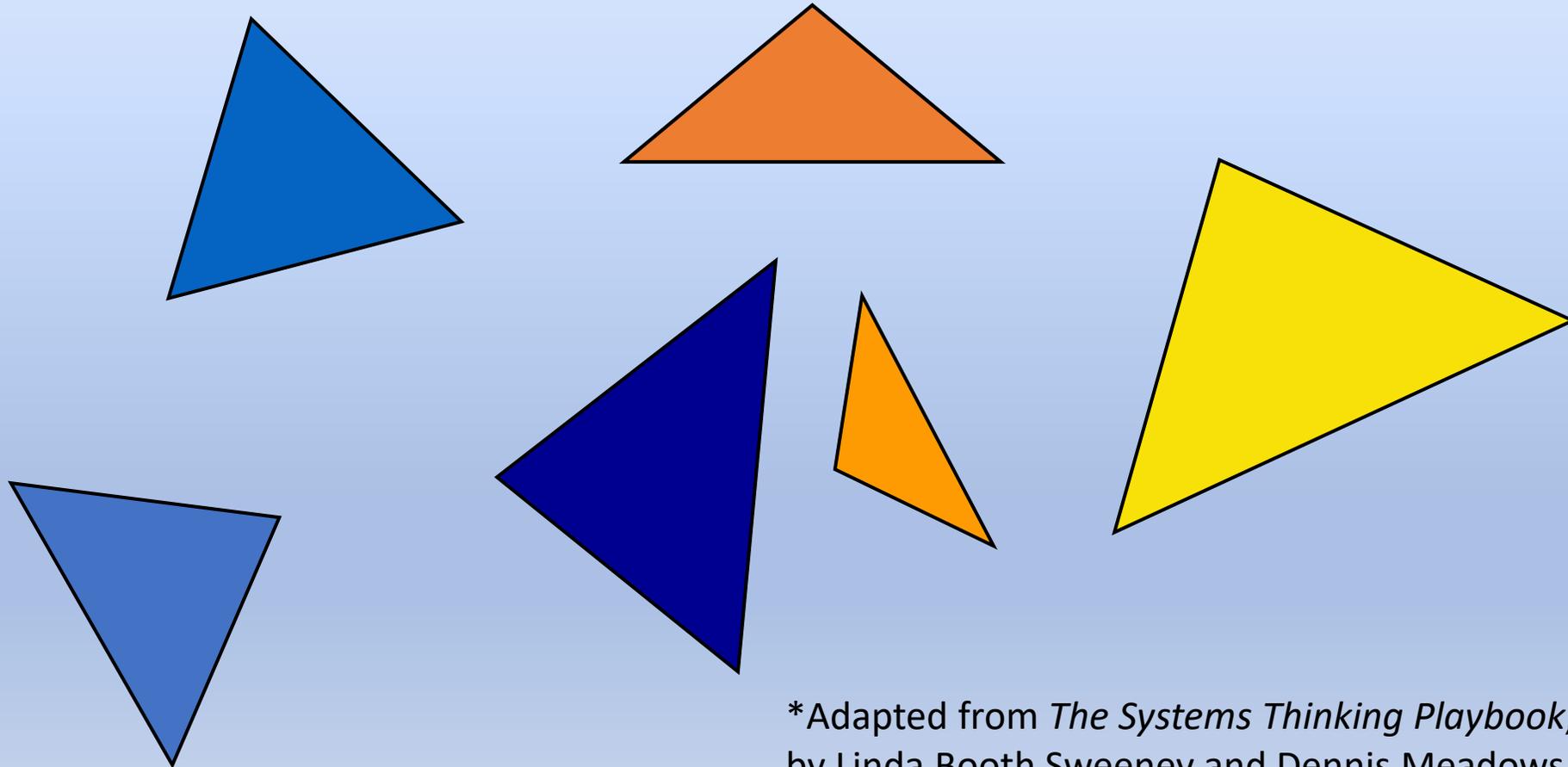


Table Talk

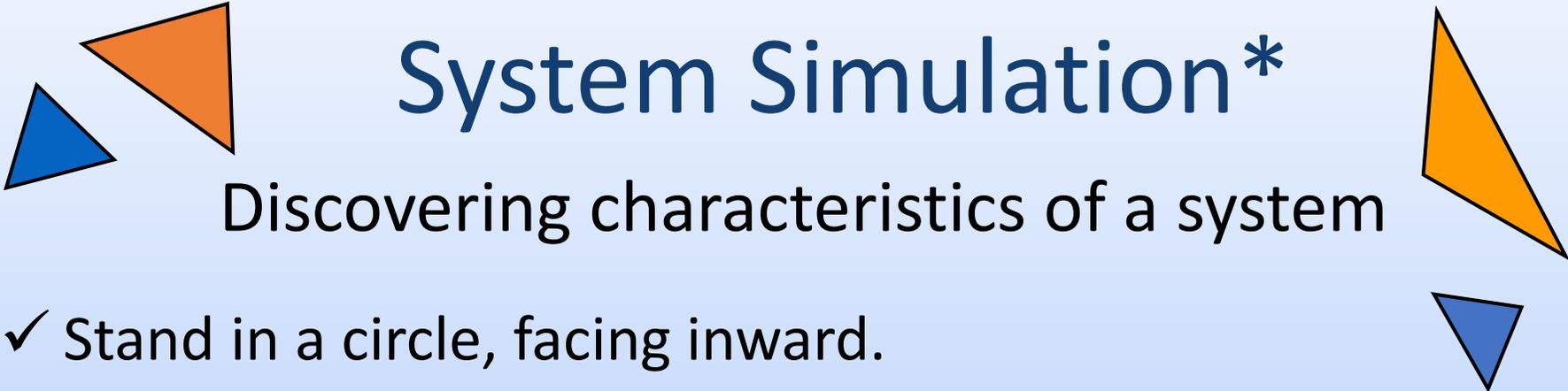
What do you miss? Be ready to share.

System Simulation*

Discovering characteristics of a system



*Adapted from *The Systems Thinking Playbook*,
by Linda Booth Sweeney and Dennis Meadows

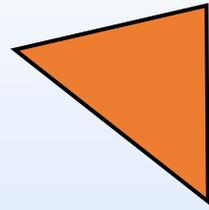
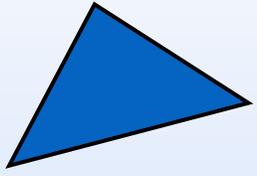


System Simulation*

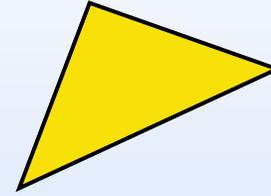
Discovering characteristics of a system

- ✓ Stand in a circle, facing inward.
- ✓ Choose two people to be your references. Keep your reference points secret.
- ✓ Once the facilitator says, “Go,” you must move to be equal distant from both of your references. If the reference(s) move, you must move as necessary to maintain equal distance.

*Adapted from *The Systems Thinking Playbook*,
by Linda Booth Sweeney and Dennis Meadows



Debrief



Observers

What did you observe during the simulation?

What rules or policies were in place to generate the dynamics you observed?

What theories do you have about the structure of the simulation?

How challenging was it to understand the system just by observing it?

Participants

What did you notice during the simulation?

What was your experience like as a participant in this activity?

What were some characteristics of the simulation?

Who in the simulation had the most influence? Why?

So, what is a system?

A system is an interconnected set of elements that is organized in a way that achieves something

Donella Meadows

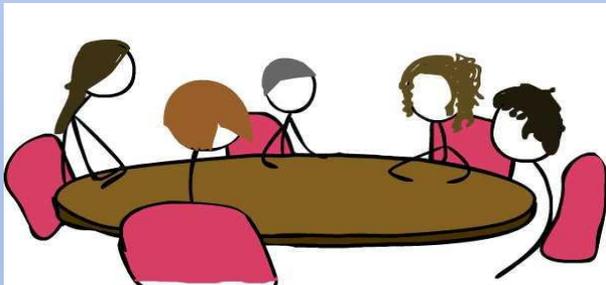
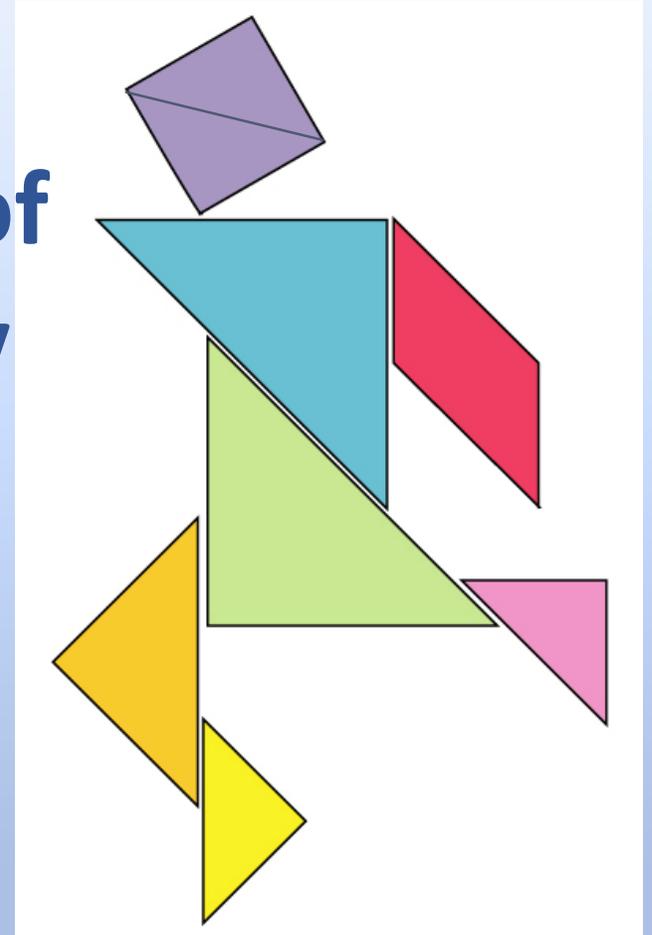


Table Talk



Characteristics of Systems

Goal - Purpose

Elements or Parts - Structure

Interconnections - Relationships

Dynamic - Change over time



Goal or Purpose?



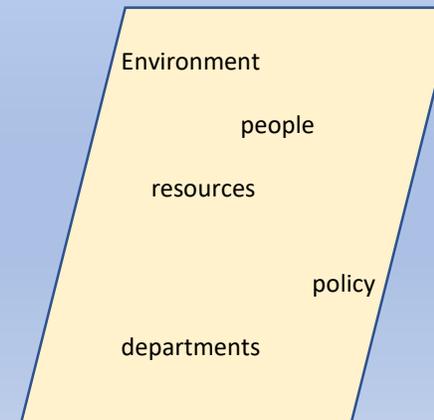
Grass Valley School District



What are some elements in our school system?



**Using your large poster paper,
List all the part or elements in the Grass
Valley School District System.**





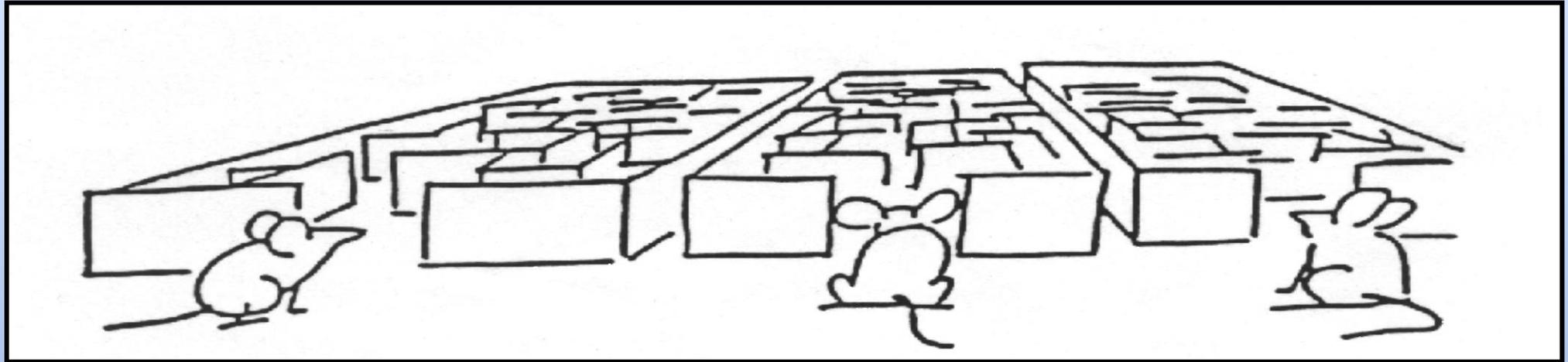
How do these systems interact with each other? Describe the relationships they have with each other.

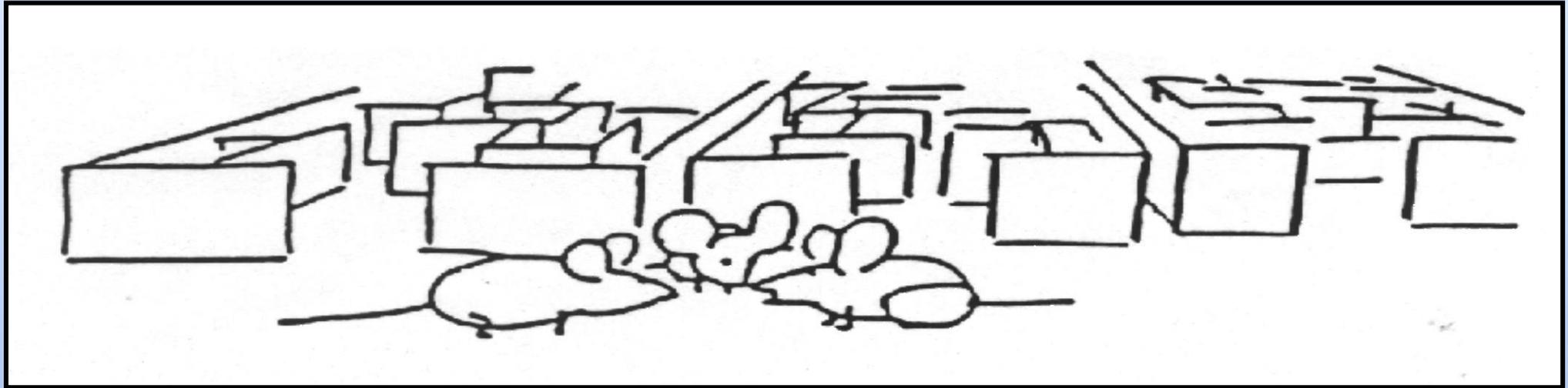


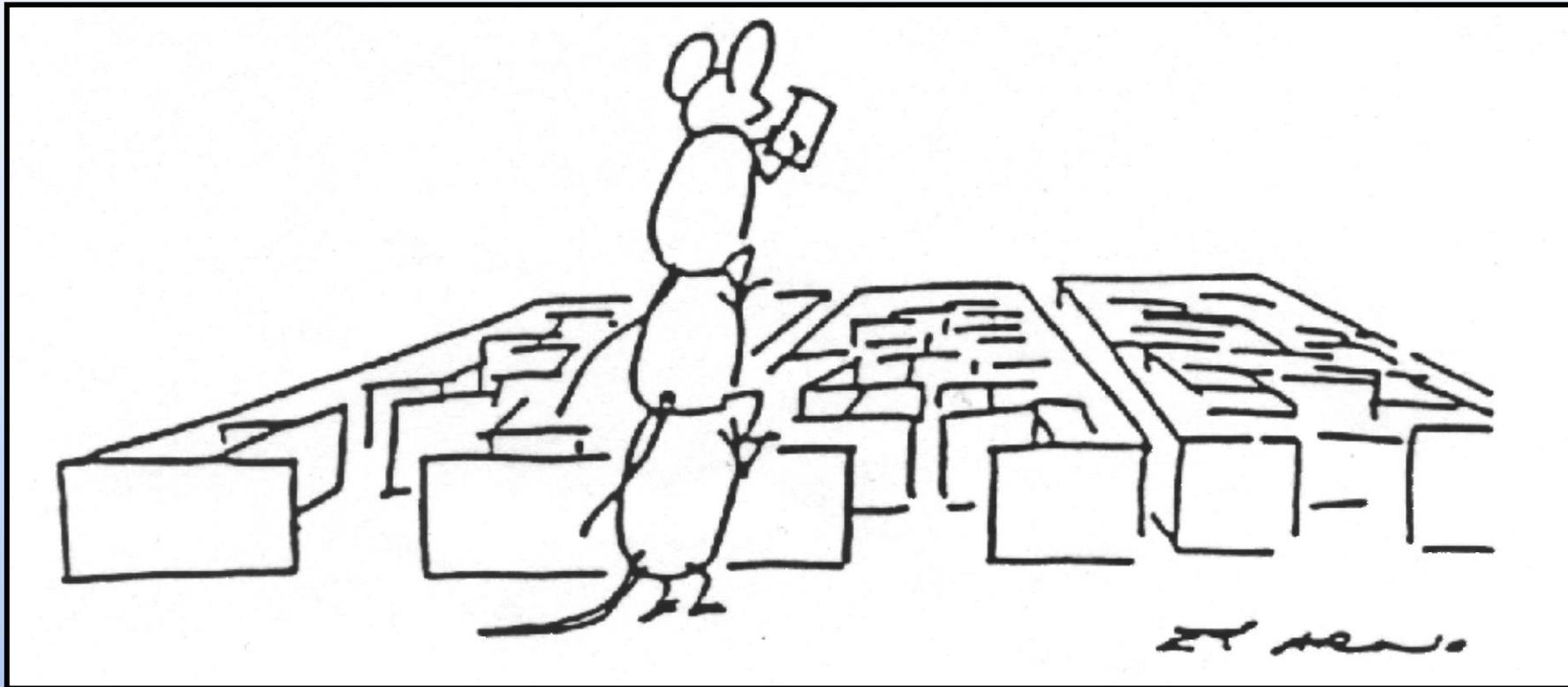
What are some changes your systems has experienced?





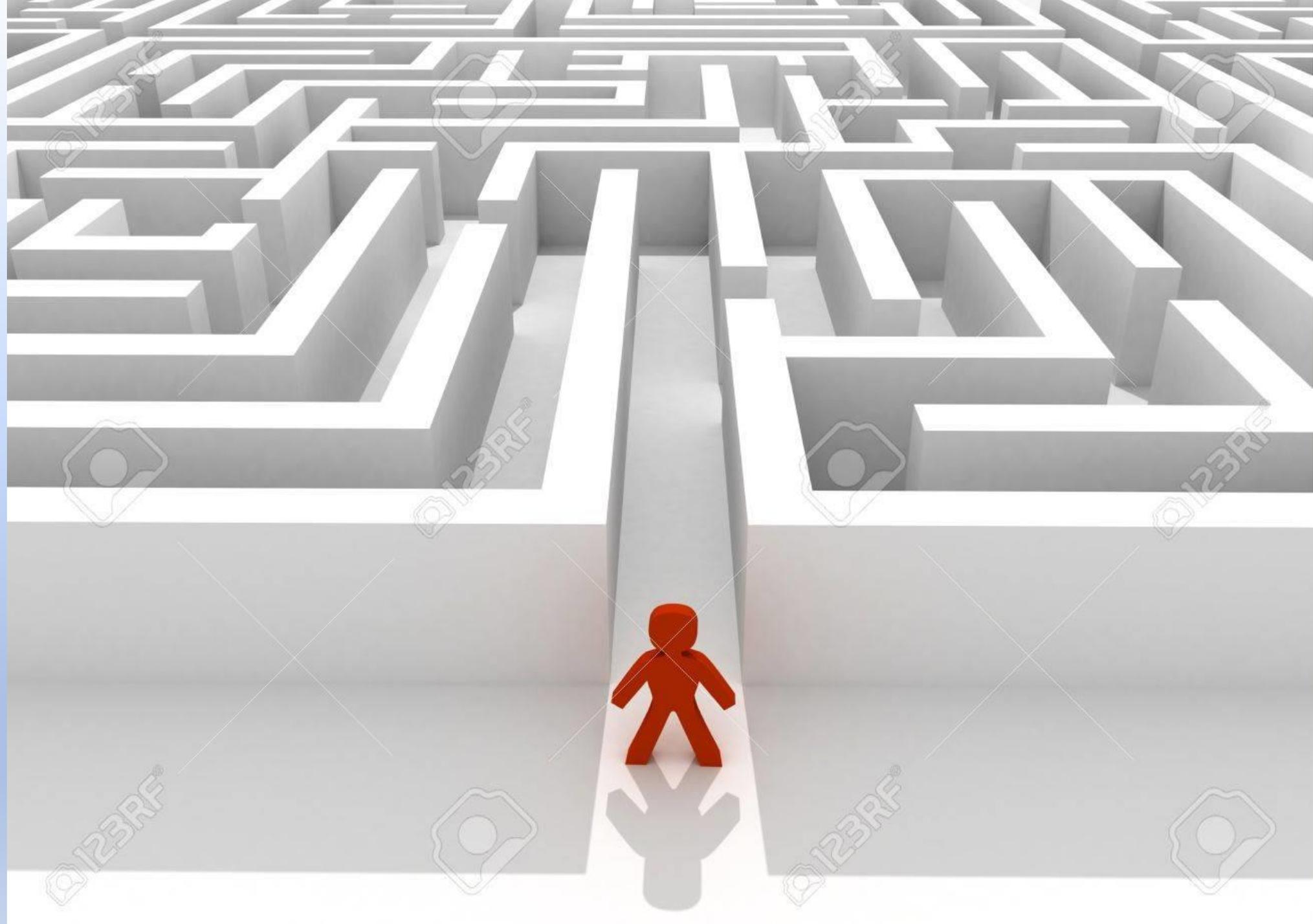






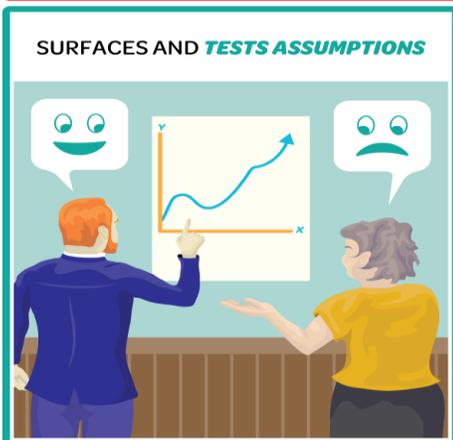
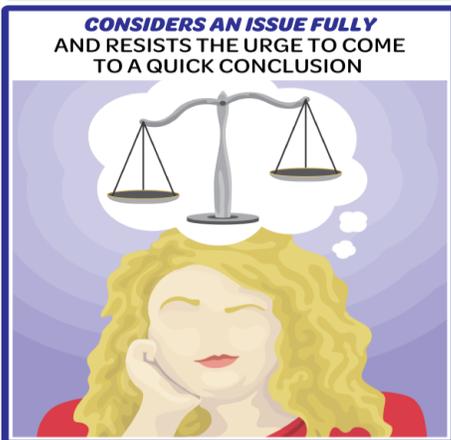
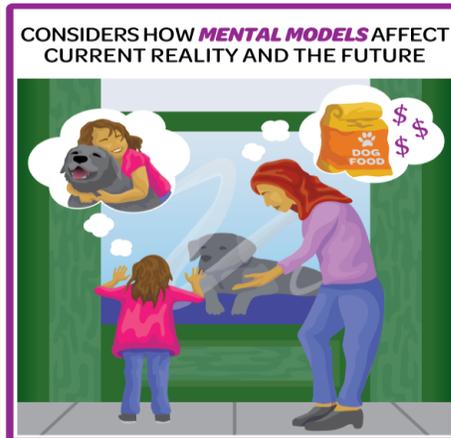
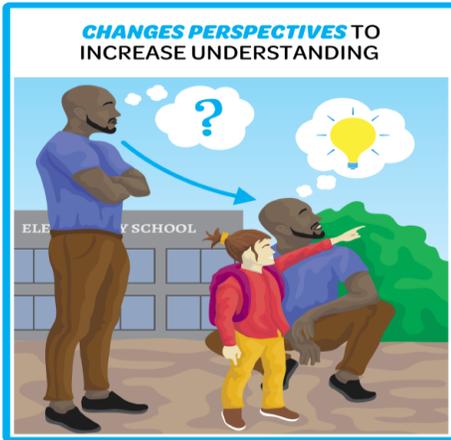
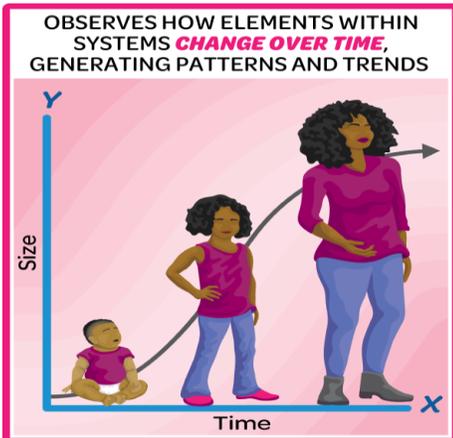
Your system...any system is
perfectly designed to produce the
results you are obtaining.

(Adapted from Carr, 2008)



HABITS OF A SYSTEMS THINKER

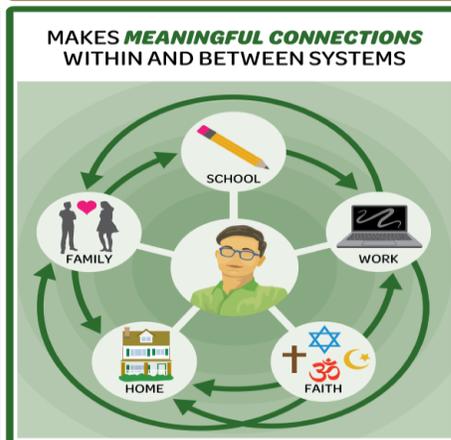
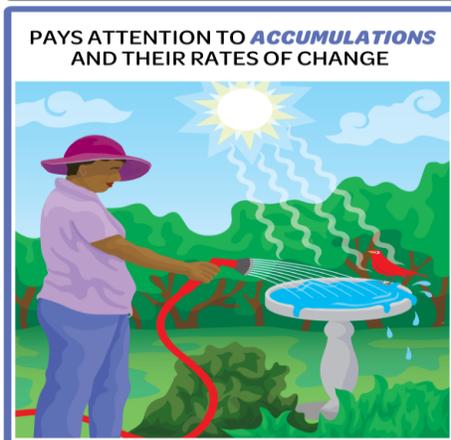
2020 Edition



brought to you by
Waters Center
 For Systems Thinking

This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

© 2020 Waters Center for Systems Thinking
WatersCenterST.org



Habits vs. Goals

Goal

10,000 steps for today



Habit

Making physical activity a daily practice

Goal

Learn about Systems Thinking by taking a workshop or reading a book



Habit

Develop everyday Habits of a Systems Thinker through intentional practice



Bruce Lee

I fear not the man
who has practiced
10,000 kicks once,
but I fear the man
who has practiced
one kick 10,000 times.

InspirationBoost.com

HABIT SORT





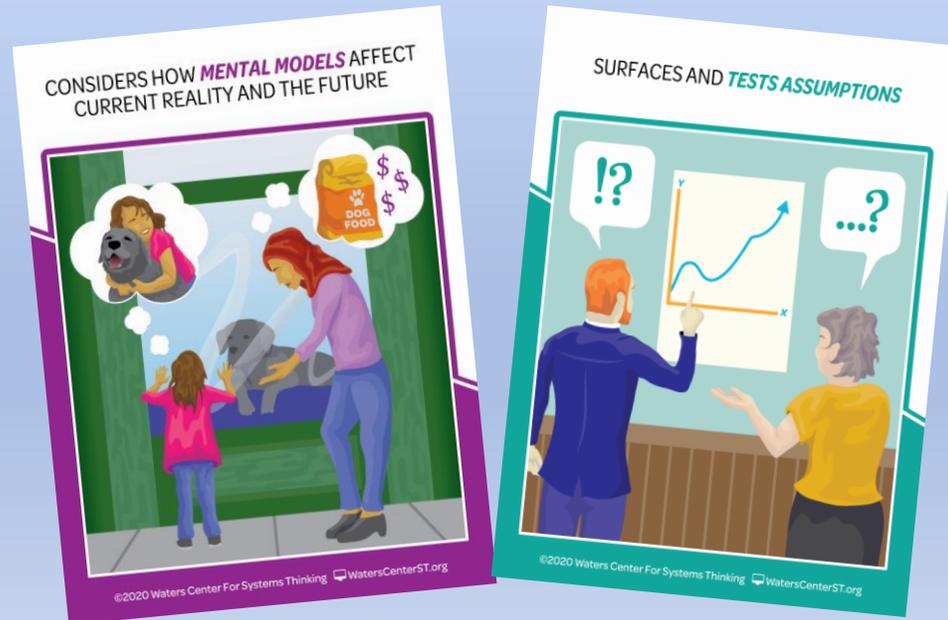
***What Habits
were the mice
practicing?***

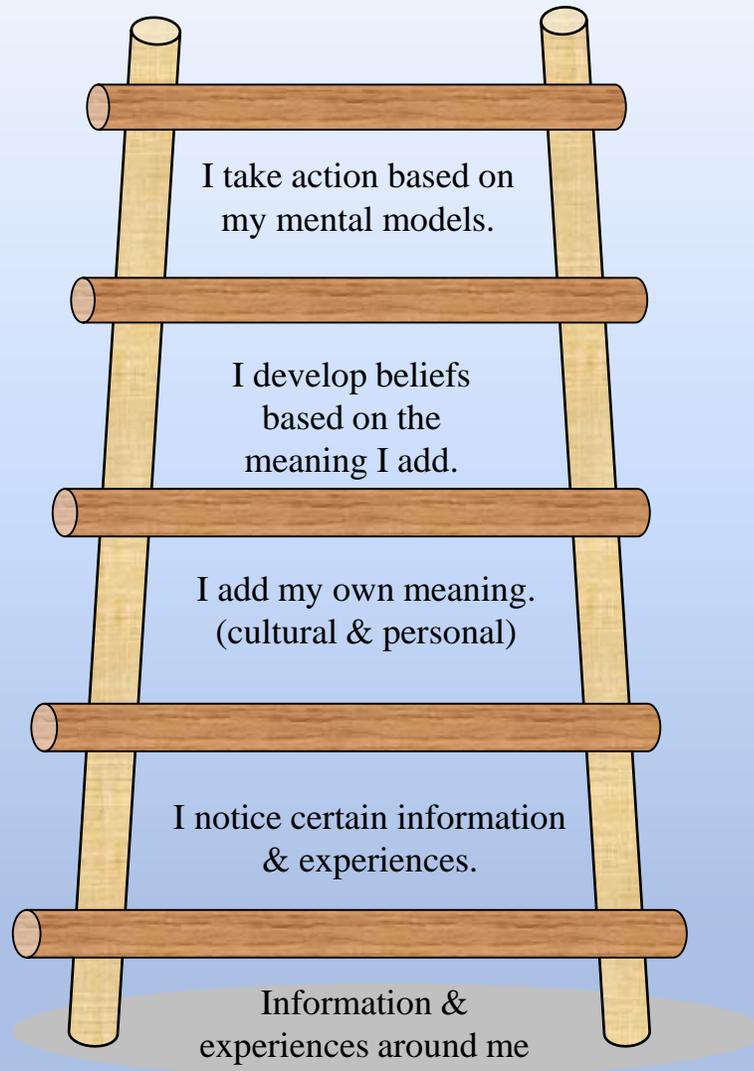
THUMB WRESTLE



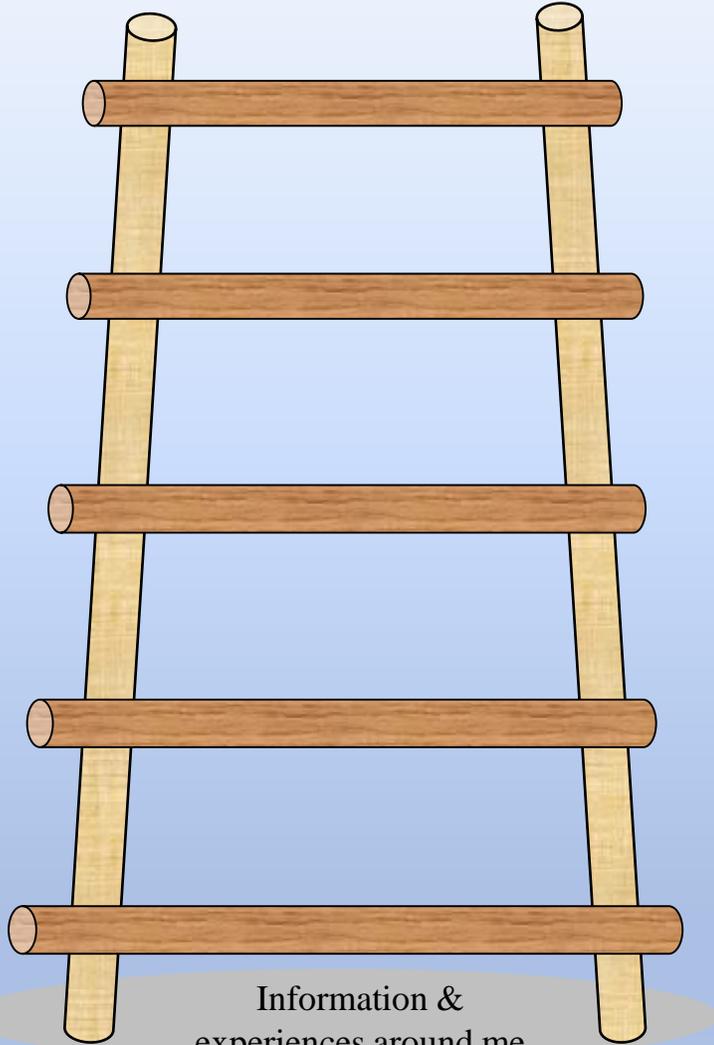
“To break a mental model is harder than splitting an atom.” Albert Einstein

- Mental models are personal beliefs, values, and perceptions that control what we see, how we interpret what we see, and the beliefs we develop based on what we see.
- They are deeply buried and hidden from our awareness.
- This creates a barrier to a deep understanding of systems.



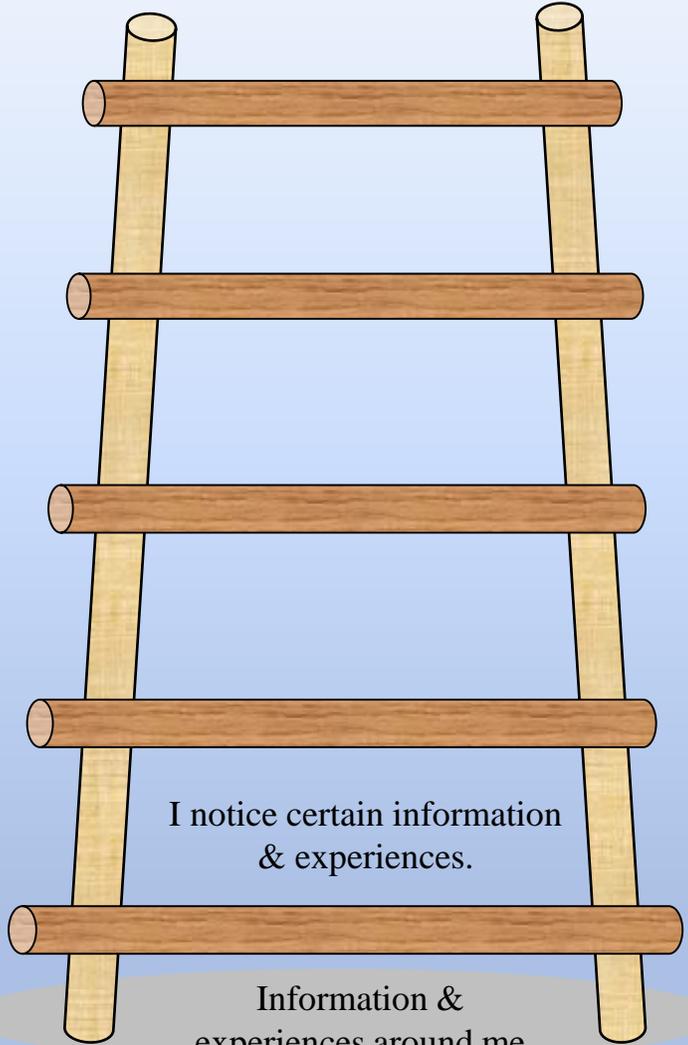


LADDER OF INFERENCE



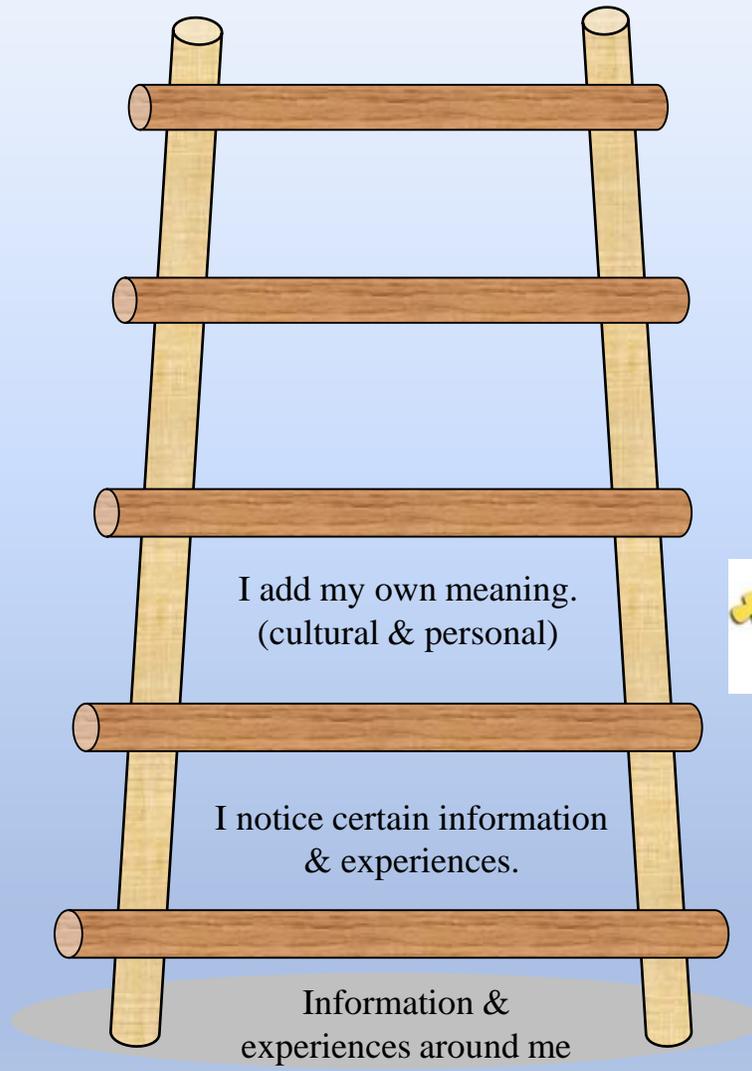
Information &
experiences around me

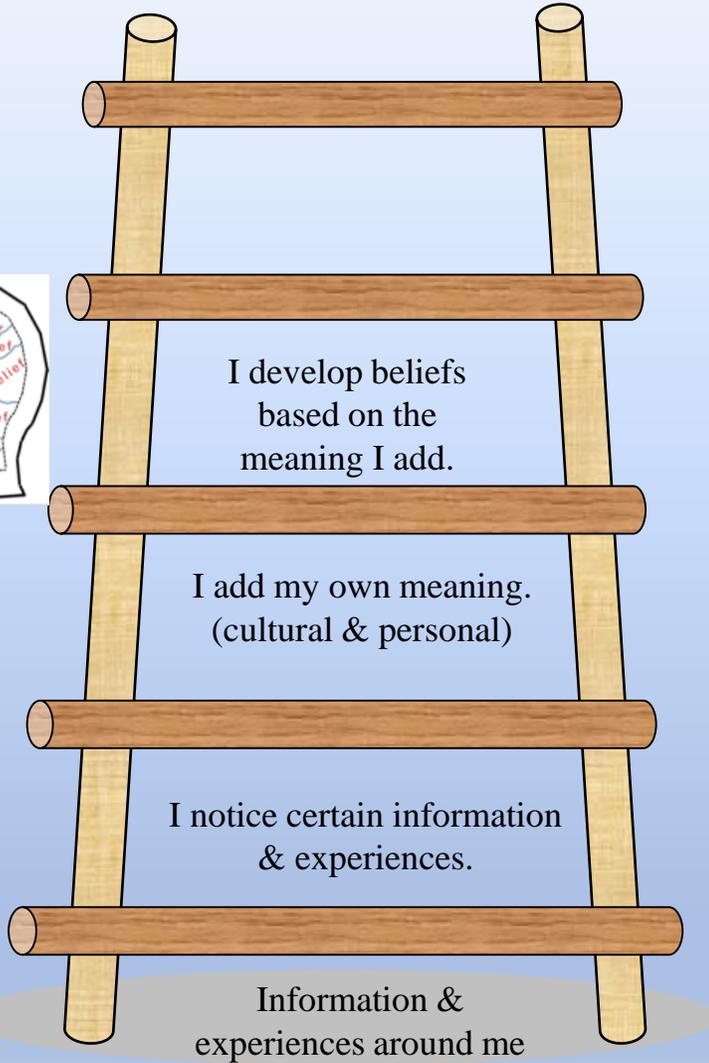
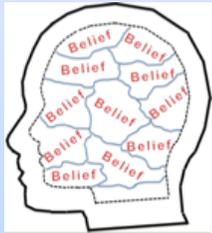


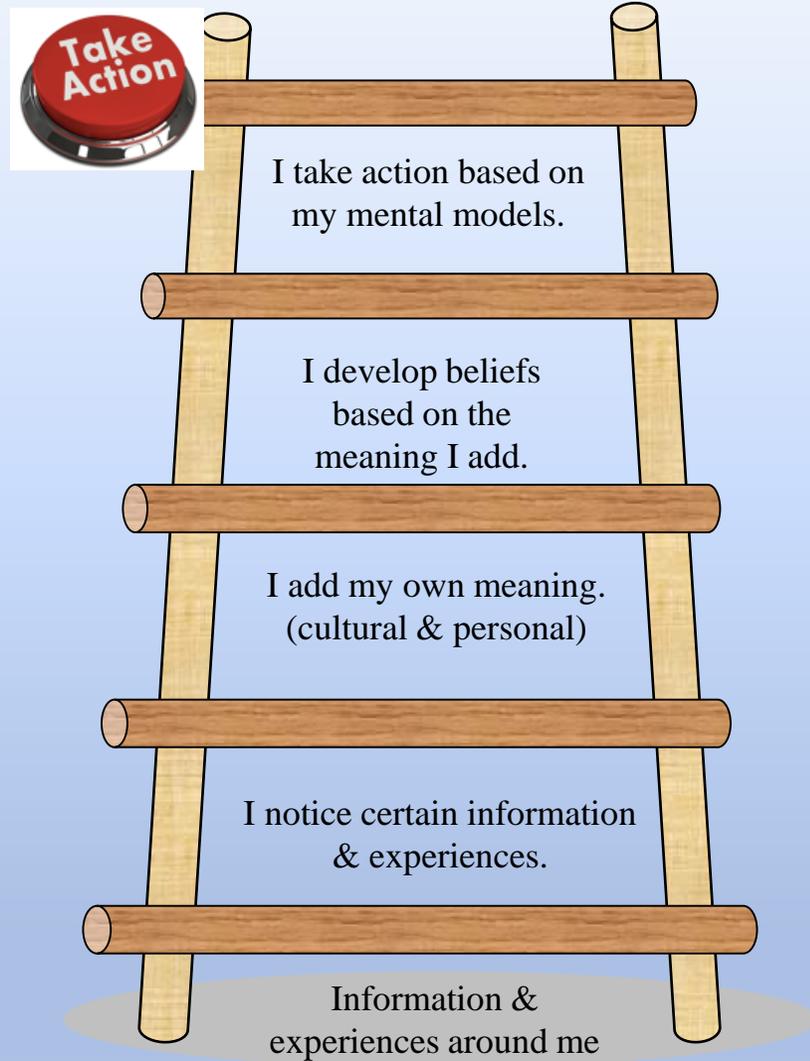


I notice certain information
& experiences.

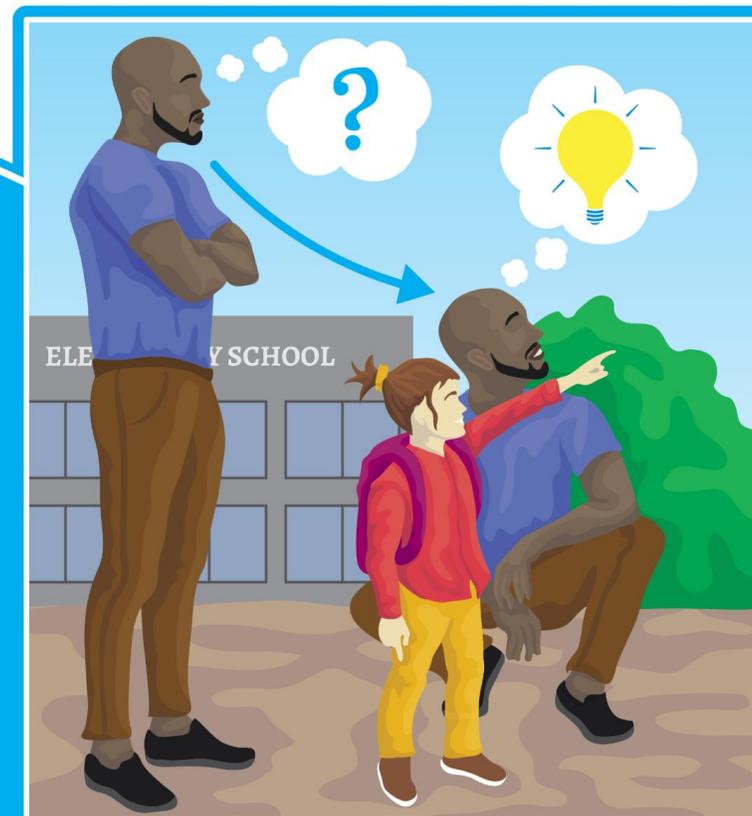
Information &
experiences around me







CHANGES PERSPECTIVES TO INCREASE UNDERSTANDING









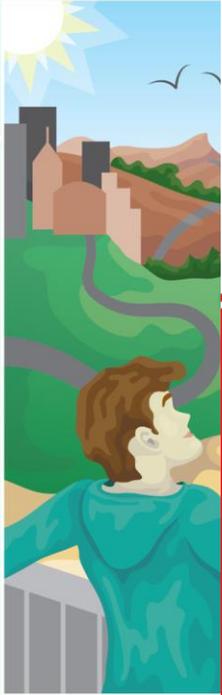




Better Together

Back Stronger

SEEKS TO UNDERSTAND
THE BIG PICTURE



©2020 Waters Center

USES UNDERSTANDING OF SYSTEM
STRUCTURE TO IDENTIFY
POSSIBLE **LEVERAGE ACTIONS**



©2020 Waters Center For S

CHANGES PERSPECTIVES TO
INCREASE UNDERSTANDING



©2020 Waters Center For Systems Thinking WatersCenterST.org

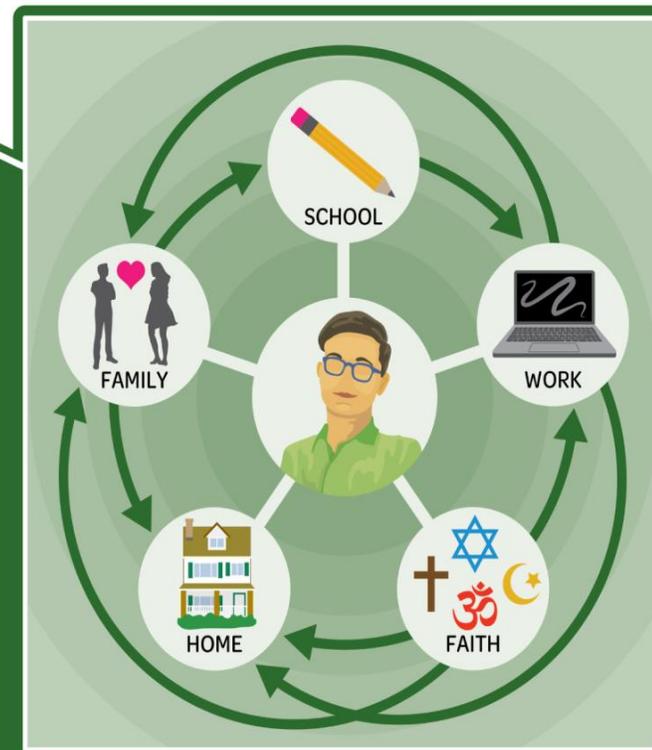
CONSIDERS HOW **MENTAL MODELS** AFFECT
CURRENT REALITY AND THE FUTURE

SURFACES AND **TESTS ASSUMPTIONS**



WatersCenterST.org

MAKES **MEANINGFUL CONNECTIONS**
WITHIN AND BETWEEN SYSTEMS



©2020 Waters Center For Systems Thinking WatersCenterST.org

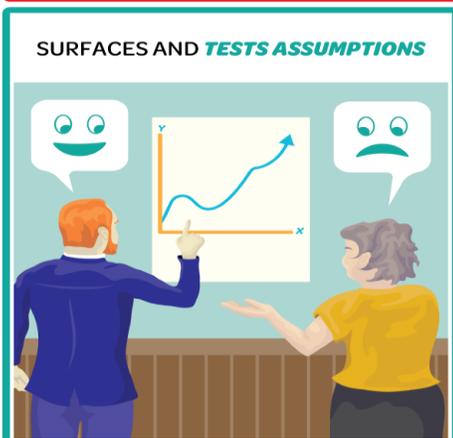
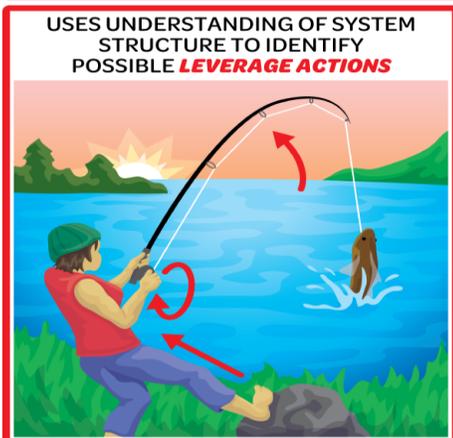
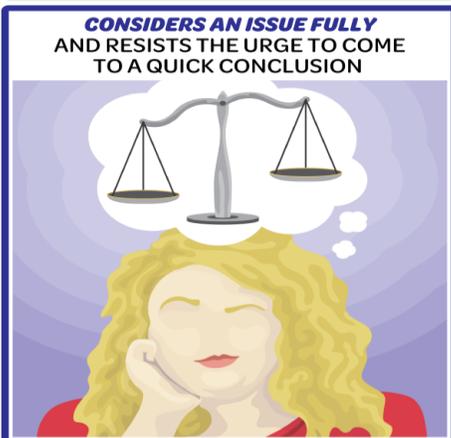
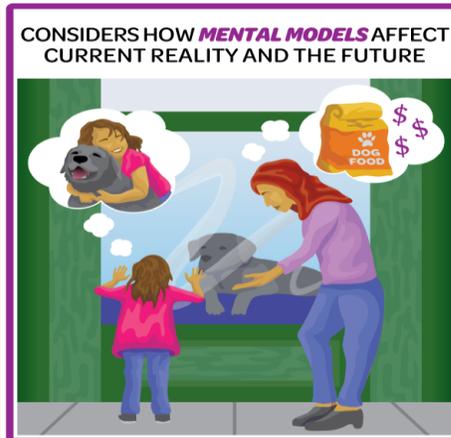
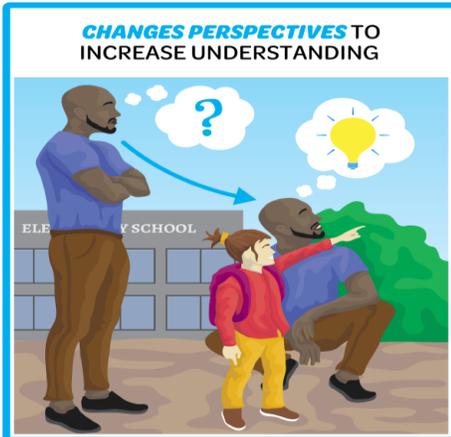
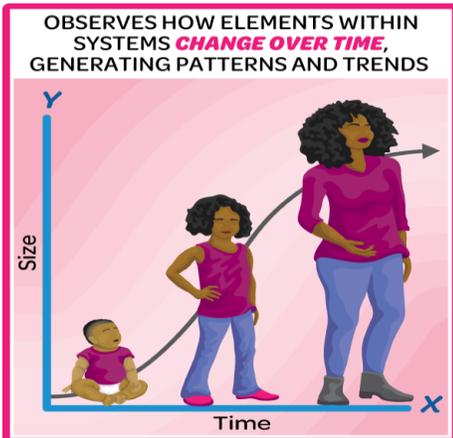
What Habits can you practice this year?





HABITS OF A SYSTEMS THINKER

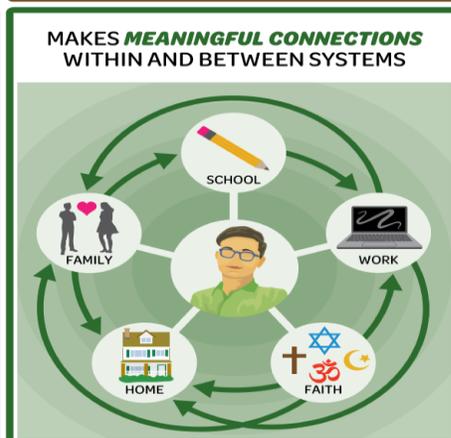
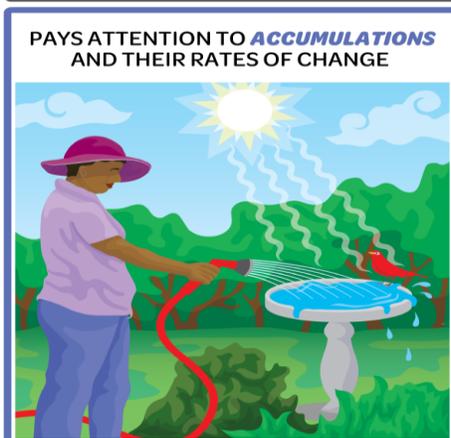
2020 Edition



brought to you by
Waters Center
 For Systems Thinking

This work is licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-nd/4.0/> or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

© 2020 Waters Center for Systems Thinking
WatersCenterST.org





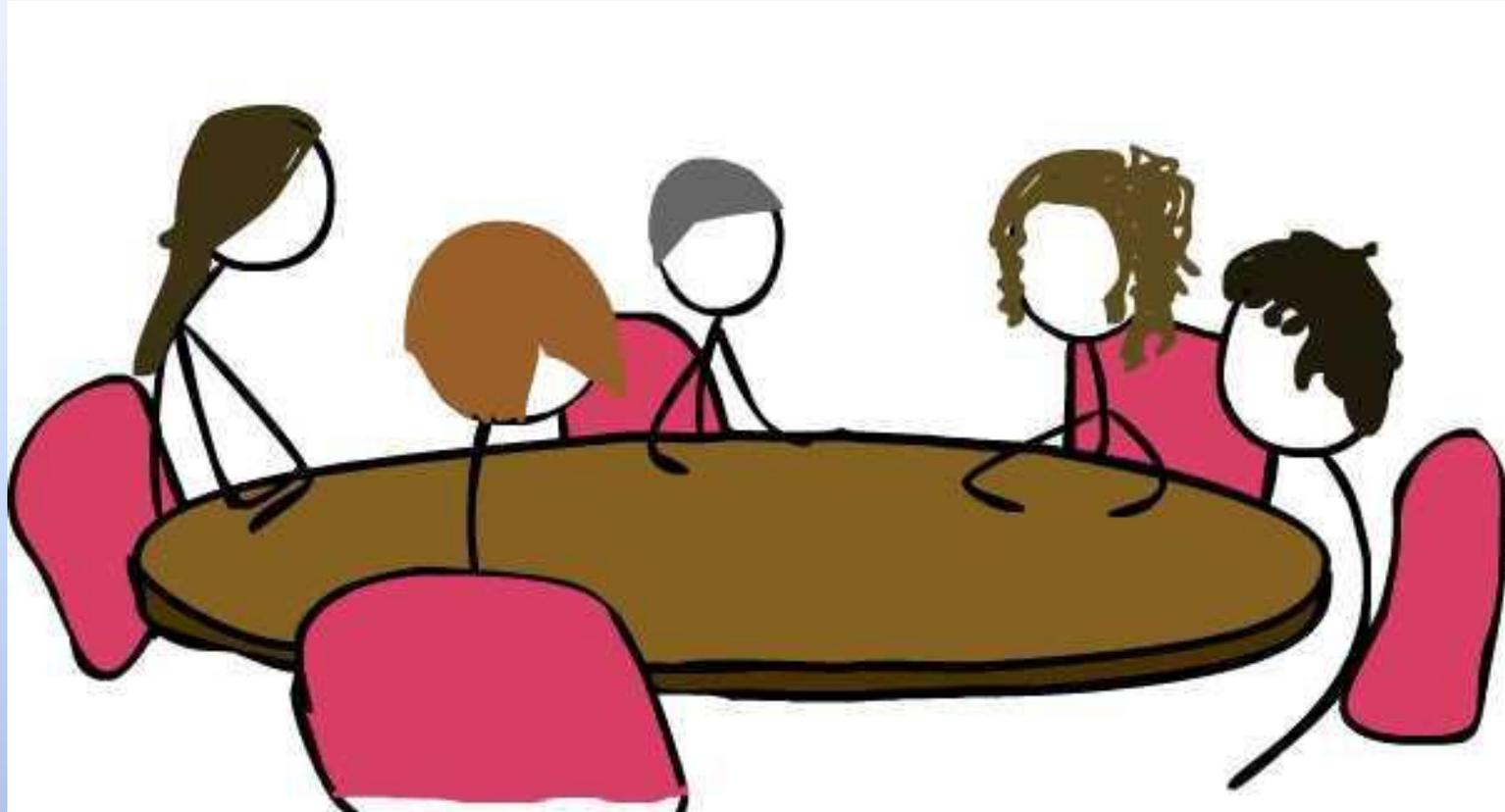


Table Talk

BIG PICTURE

SEEKS TO UNDERSTAND
THE BIG PICTURE



©2020 Waters Center For Systems Thinking  WatersCenterST.org

SEEKS TO UNDERSTAND
THE BIG PICTURE

*A Systems Thinker focuses
on the forest as well as
the details of any
one tree.*

Questions to Ask

*How can I maintain balance between the big picture
and important details?*

*What time frame should be considered as I view
the system?*

*Am I keeping my focus on areas of influence, rather
than on areas of concern that I cannot influence?*

POINTS OF LEVERAGE

USES UNDERSTANDING OF SYSTEM
STRUCTURE TO IDENTIFY
POSSIBLE **LEVERAGE ACTIONS**



USES UNDERSTANDING OF SYSTEM
STRUCTURE TO IDENTIFY
POSSIBLE **LEVERAGE ACTIONS**



A Systems Thinker uses system understanding to determine what small actions will most likely produce desirable results.

Questions to Ask

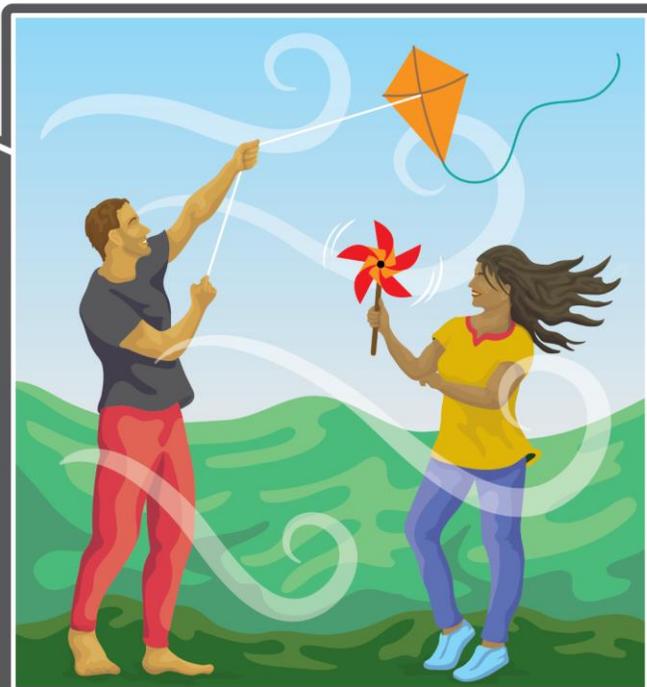
Where might a small change have a long-lasting, desired effect?

How can we use what we know about the system to identify possible leverage actions?

Are there other small changes that we have not yet considered that could bring us desirable results?

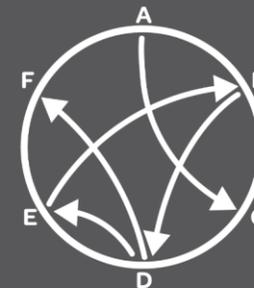
SYSTEM'S STRUCTURE

RECOGNIZES THAT A SYSTEM'S
STRUCTURE GENERATES ITS BEHAVIOR



©2020 Waters Center For Systems Thinking  WatersCenterST.org

RECOGNIZES THAT A SYSTEM'S
STRUCTURE GENERATES ITS BEHAVIOR



A Systems Thinker focuses on system structure and avoids blaming when things go wrong.

Questions to Ask

How do parts affect one another?

How does the organization and interaction of the parts create the behavior that emerges?

When things go wrong, how can I focus on internal causes rather than dwell on external blame?

PERSPECTIVES

CHANGES PERSPECTIVES TO INCREASE UNDERSTANDING



©2020 Waters Center For Systems Thinking  WatersCenterST.org

CHANGES PERSPECTIVES TO INCREASE UNDERSTANDING



A Systems Thinker increases understanding by changing the way they view aspects of the system.

Questions to Ask

- Am I open to other points of view?*
- How do different points of view influence the way I understand the system?*
- Who should I approach to help me gain new perspectives on an issue?*
- As I learn about new perspectives, am I willing to change my mind?*

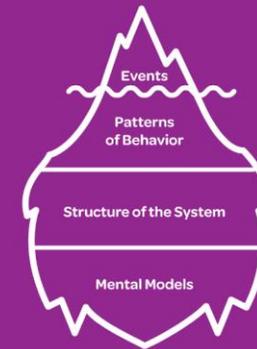
MENTAL MODELS

CONSIDERS HOW **MENTAL MODELS** AFFECT CURRENT REALITY AND THE FUTURE



©2020 Waters Center For Systems Thinking  WatersCenterST.org

CONSIDERS HOW **MENTAL MODELS** AFFECT CURRENT REALITY AND THE FUTURE



A Systems Thinker is aware of how beliefs and attitudes influence the way a system behaves.

Questions to Ask

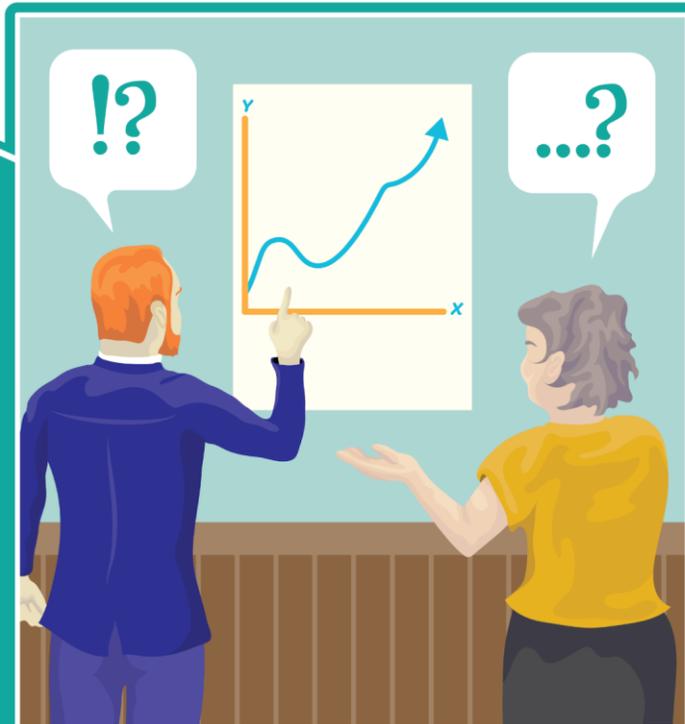
How are the current mental models (i.e. attitudes, beliefs) advancing or hindering our efforts to achieve desired results?

How am I helping others see the influence that mental models have on our decision-making?

How could my own mental models be barriers to what I am trying to achieve?

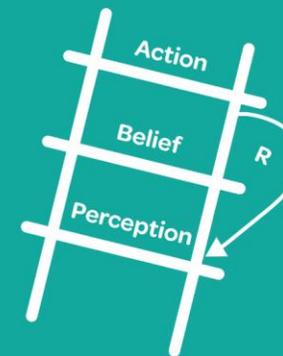
SURFACES AND TESTS ASSUMPTIONS

SURFACES AND *TESTS ASSUMPTIONS*



©2020 Waters Center For Systems Thinking  WatersCenterST.org

SURFACES AND *TESTS ASSUMPTIONS*



A Systems Thinker actively tests theories and surfaces assumptions, perhaps with others, in order to improve performance.

Questions to Ask

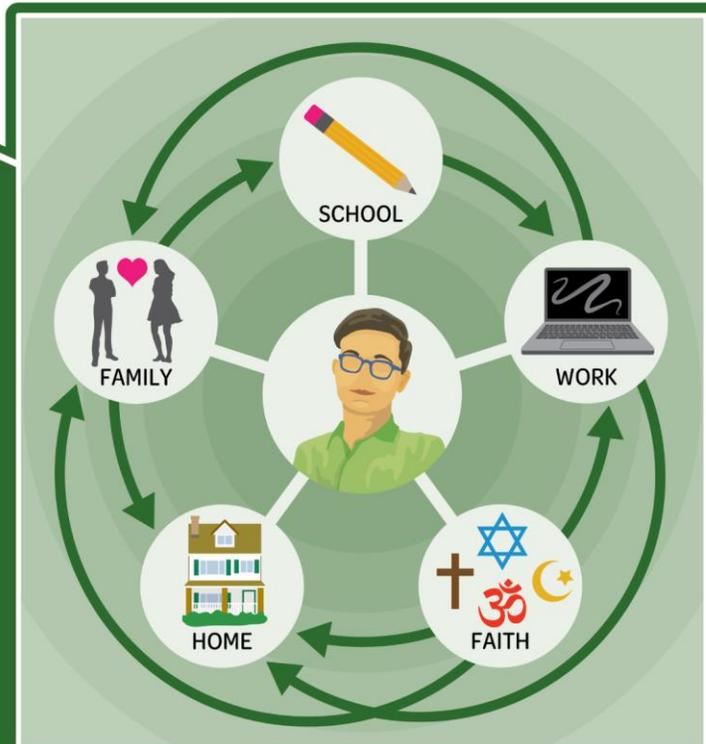
How do my past experiences influence the development of my theories and assumptions?

How well does my theory or model match or differ from other views of the system?

When considering a possible action, do I and those I work with ask "What if" questions?

MAKING MEANINGFUL CONNECTIONS

MAKES **MEANINGFUL CONNECTIONS**
WITHIN AND BETWEEN SYSTEMS



MAKES **MEANINGFUL CONNECTIONS**
WITHIN AND BETWEEN SYSTEMS



A Systems Thinker sees how concepts, facts, and ideas link together, which can lead to new learning, discoveries, and innovations.

Questions to Ask

- What are the relationships among the parts of the system and how do they affect the behavior of the system?*
- How can recognizing the many aspects of a system create a better understanding of the system as a whole?*
- How does understanding of one system transfer to understanding of another system?*