Providing Students with a Passionate, Powerful, Persuasive Practice Using Systems Thinking:
Using Stock-Flow Maps to Deepen Understanding of Persuasive Techniques

Facilitators:
Brian Bindschadler & Tracy Benson

www.watersfoundation.org

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Other applications:

• Reading ability
• Writing ability (combine with reading ability to show interactions)
• Indifference (unit on The Holocaust)
• Novels – *Lord of the Flies*, *The Giver*, *To Kill a Mockingbird*, *Animal Farm*
• COPE simulation – science fiction simulation where a computer gradually takes control of their society
Other applications in earlier grades:

- Reading comprehension
2nd grade stock-flow interpretation of the story
Water in the Hole

In

Rain

When the water is up

Number of animals at the water hole

Walk to

Out

When the water is down

Drinking

Walk away
Other applications in earlier grades:

- Reading comprehension
- Social-Emotional learning skills
Stock Flow Diagram

If our stock keeps getting bigger, then our classroom would be kinder and kinder.

Acts of Kindness

In

- When someone hugs you
- Saying "Thank you"
- Helping someone up
- Opening a friend's milk
- Taking someone to the nurse
- Giving flowers to the principal
- Holding hands

Out

- Pushing someone down
- "I'm not going to be your friend"

If we had unsafe hands, "Our class would be less kind."

Charlotte: this in the cafeteria?

Maggie: "Thank you" would make the stock grow.

Sanaya: would make the stock increase.
Allahah's Personal Contributions to Kindness

Inflow:
- Help my Sister clean her room
- Fixed a door for somebody
- Gave a kid a get of the water

Outflow:
- I didn't clean her room on accident
- I called my better a name.
- I didn't do my homework.
- At the museum I touched something.
We Have Stamina!

Stock Flow Diagram

If you have an interest in something, your stamina will go up or increase.

If you do not have an interest in something, your stamina will go down or decrease.

Stamina

IN

Attention or Focus
Practice
Interest

OUT

Stock

Thinking
Working
Not Exercising
No Interest
Not practising
Not Focusing
Not thinking

Decrease

Convertisers

Not working or not trying
Not listening

I have stamina for playing Videos.
I can play the Video Game Plant vs Zombies for 30 minutes.

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I have stamina for swimming. I can swim in the pool for a long time.
Other applications in earlier grades:

- Reading comprehension
- Social-Emotional learning skills
- Problem analysis and representation
All of these were sick in flow

outflow

Rest Tylenol

Immune System

Eliza

Sophia

Eli

Sam

George

Jayen

Izzie
2nd grade stock-flow interpretation of interdependences related to an endangered species

- Birth
- Good food
- Play
- Mom's love
- Reserve
- Gorillas
- Deaths
- Hunting and killing
- Their homes are going away
- Wars are making their homes go away
Adult Applications
Professional DOD Consultants: Afghanistan
Which Habits of a Systems Thinker have you practiced today with stock-flow maps?
Thank you!

Questions?

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Tucson, AZ
Systems Thinking
Level 1 – June 5 - 8
Level 2 – June 11 - 14

Renton, WA
Systems Thinking: Developing Capacity For Thinking, Leading & Learning
July 24 - 26

Tracy Benson
t.benson@watersfoundation.org

Brian Bindschadler
_bbindschadler@cfsd16.org