

From Socrates to STEAM

Student Agency
Impacts the Future

***Please complete the survey at
the following URL:***

tinyurl.com/idge2020

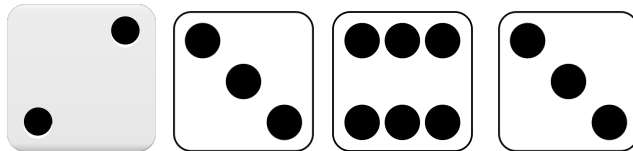
Link to this Presentation:

tinyurl.com/S2S2020

A Survey...and A Game

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Possible Solutions

$$\rightarrow \frac{6+(3+3)}{2}$$

$$\rightarrow (6/2 \times 3) - 3$$

$$\rightarrow (6 \times 2) - (3 + 3)$$

$$\rightarrow 2(3^2 - 6)$$

$$\rightarrow \{(6 \times 2) - 3\} - 3$$

Survey? tinyurl.com/idge2020

Who are You?

If you haven't taken the survey
yet:

<https://tinyurl.com/idge2020>

- ★ Teachers/DTLs
 - Elementary
 - Secondary
 - Post secondary
- ★ Admin/Coaches
- ★ Parents
- ★ Students
- ★ Others?

A portrait of Connie Brown, a woman with long blonde hair, wearing a light blue blazer over a dark top. She is looking directly at the camera with a slight smile. The background is a warm, textured wood panel.

Connie Brown, GT Resource Teacher

- **Resource teacher for Jeffco Gifted Talented Programming**
- **Supports students' ALPs, goals, and entry into the GT program**
- **31 years as a classroom teacher (26 in Jeffco), former GT Center teacher**
- **BA, University of Colorado at Boulder**
- **MA, Lesley College, Cambridge, MA**
- **Local, National, and International Speaker**

Does Agency
Matter?

*PLAYER
AGENCY*



Player Agency

- 1) The player has control over his/her avatar's choices in the game
- 2) Those choices have consequences to the outcome of the game and
- 3) The player has enough information to anticipate those choices and consequences.

Student Agency

- 1) The student has control over significant choices in his studies
- 2) Those choices have consequences in the real world and
- 3) The student has enough information to anticipate and/or explore those choices and consequences.

Agency and Education:

Why does
student
agency
matter?

[Understanding
GT Profiles and
needs](#)



From Socrates to STEAM...



Science

Technology

Engineering

Art

Math

STEAM Education is an approach to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking.

Problem-Based Learning is a student-centered pedagogy in which students learn about a subject through the experience of solving an open-ended **problem** found in relevant, engaging material.

Further Study: Agency

Maungaraki School

Edutopia

Dr. D. Smith

A.Snyder



Agency: The capacity for an individual to act independently and to make their own free choices.

Structure: The factors of influence that determine or limit agency

Games:

Choice in character

Choice in pathways

Choice to gain/use/lose 'powers'

Education:

Choice in *topics and studies*

Choice in *product*

Choice in *process*

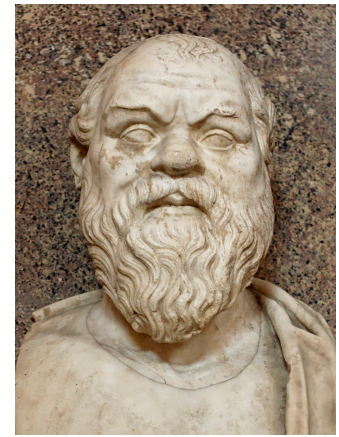
Choice in *assessment style*

Contributions	Father of Western Philosophy
Take-Away	Empower students to seek skills AND personal truth
The Tool	<u>Depth & Complexity</u> <u>CB's Planning Template</u>

Socrates

Born: c 470 BC

Died: 399 BC



[Knowledge + Virtue = Actualized Potential \(Happiness\)](#)

[The Father of Western Philosophy](#)



Aristotle

Born: June 19, 384 BC,

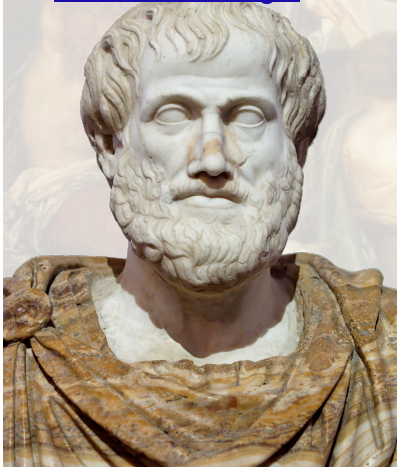
Died: March 7, 322 BC,

More [Biography](#)

[What Made Aristotle so Great?](#)

[Understanding Rhetoric](#)

[Fallacies in Logic](#)



Contributions

Balance Body & Mind
Balance of Appeals
Respect Logic

Take-Away

Establish common knowledge in order to have meaningful discussions

Utilize logic & strategy

The Tool

[The Unit presentation template](#)



Anne Sullivan

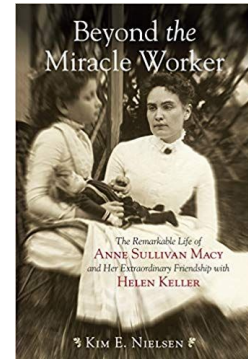
Born: April 14, 1866

Died: October 20, 1936

The Take-Away

When we start with the familiar and personally meaningful, learning occurs more quickly and lasts longer

The Tool: [The Opener/Notecatcher](#)
[DCF Jigsaw Template](#)



Jaime Escalante

Born: December 31, 1930

Died: March 30, 2010



LouAnne Johnson

Born: April 29, 1958

[Stand and Deliver](#)

[Please Stop Talking about Stand and Deliver](#)

The Tool: [The Project Notebook](#); [CoMentor.org](#)

[Dangerous Minds](#)

[Muchacho](#)

[Author's Website](#)

The Take-Away:

Connect with every student--know their name, know their story. By helping them learn the value of hard work and teaching them to be competent in advanced skills, you will give them confidence to be successful in their lives.

The Take-Away:

Like Escalante, Johnson made intentional connections with every student. She insisted on teaching difficult material and encouraged students to believe in themselves.

Hanan Al Hroub

Born: March 6, 1972

[Biography](#)

[Play to Learn](#)

[Twitter](#)



The Take-Away:

Incorporate as much play as possible into classes

Compete against teacher or clock--never against classmates

The Tool(s):

[The Intro Game](#)

[The Diamond Problem](#)

[Review Games Students Love](#)

How much agency do we need?

*Probably more than we offer
now...*



Survey Results

As you go back to your classrooms, remember what matters most!

Link to this Presentation:

tinyurl.com/S2S2020

The Tools

[CBs DCF Opener/Notecatcher](#)

[The Project Notebook](#)

[Unit Planning template](#)

[Diamond Problems](#)

[The Intro Game](#)

[The Unit Slide Show Template](#)

Other Student Resources and Opportunities

[CoMentor.org](#)

[Retired Teachers](#)

[Mentored Pathways](#)

[Colorado Technology Student Association](#)

[GT2 Summit--Growing Up Gifted “Un-Conference”](#)

(April 25--Jeffco Ed Center)

Game Theory



Player Agency (consider in terms of your classwork!)



Education: Agency



How much Agency do games need?



The Illusion of Choice