

Building Numeracy with Digital Resiliency: Developing Skills in the Digital Age

Presented by: Cynthia Bell

Director, Numeracy & Workforce Development Services

Literacy Assistance Center

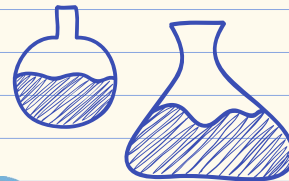
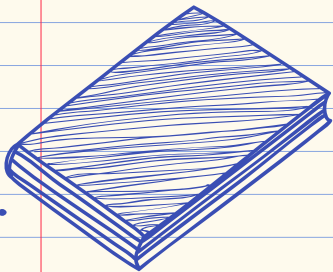


Literacy Assistance Center

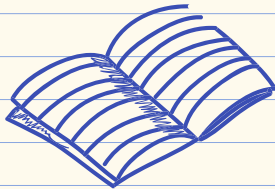
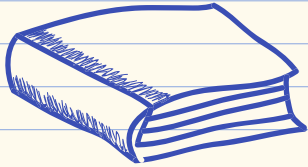


Objectives

- Define digital resiliency and understand its key components
- Discuss and identify the habits of mind
- Share strategies that develop digital resiliency

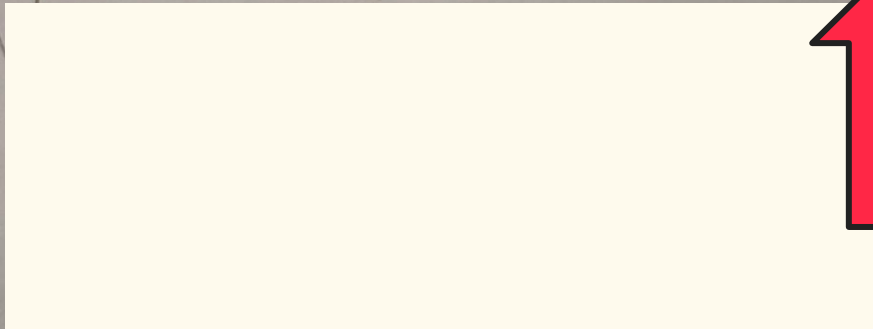


Identifying with 4 Choices



one day while helping my daughter...

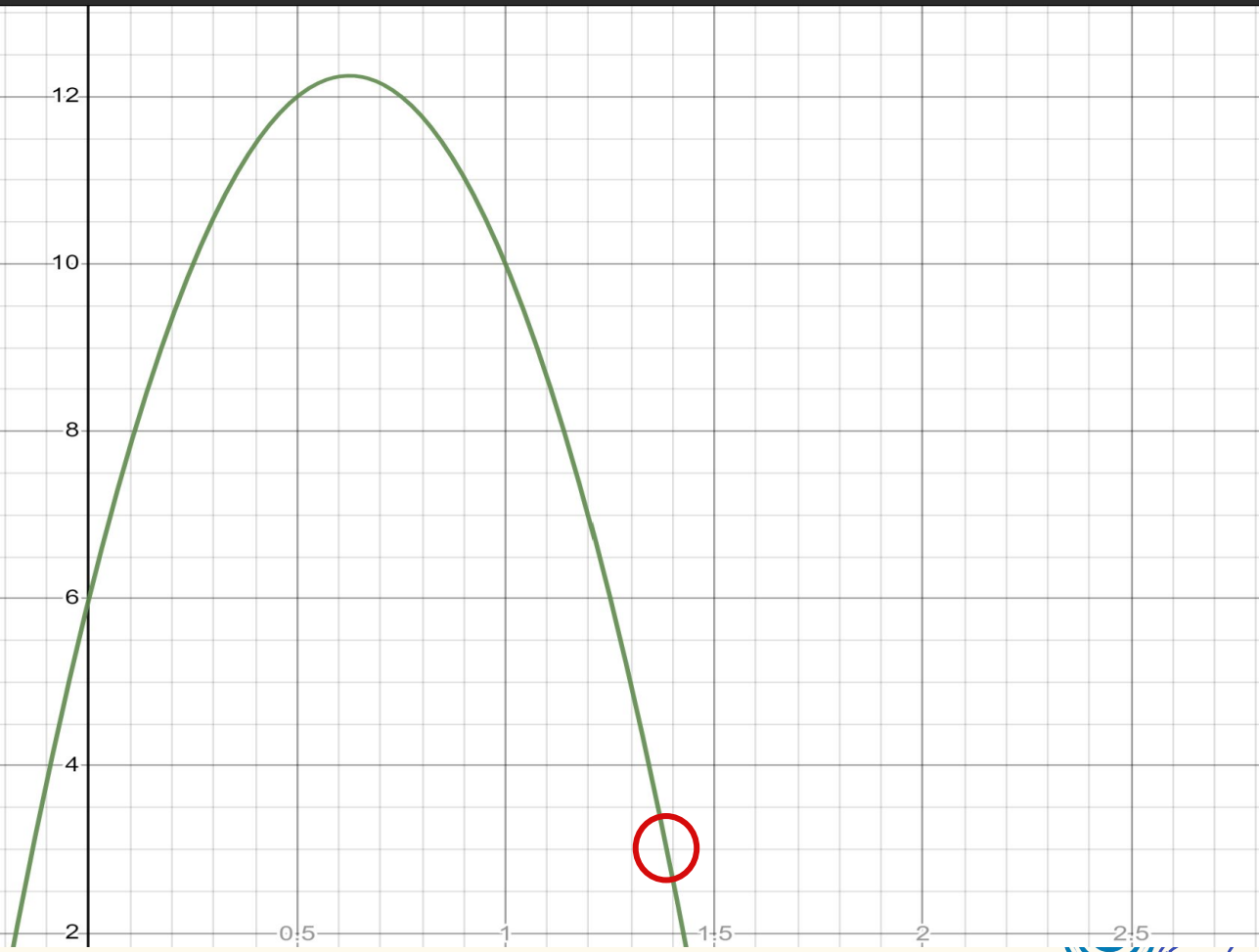
2. A ball is thrown into the air with an upward velocity of v feet per second. The height h in feet of the ball after t seconds is given by the equation $h = -16t^2 + vt + 3$. What is the maximum height the ball reaches? How long does it take for the ball to reach the maximum height? How long does it take for the ball to descend to 3 feet above the ground?



4. The length of a rectangular park is twice its width. The park is surrounded by a 3-foot-wide path. Write a quadratic function to represent the total







Scan the QR code to
access the Mentimeter
activity



What is Digital Resiliency?

The awareness, skills, agility, and confidence to be empowered users of new technologies and adapt to changing digital skill demands...



Key Components of Digital Resiliency

- Problem Solving
- Adaptability
- Critical Thinking
- Communication and Sharing Information
- Productive Struggle



what is Numeracy?

Numeracy is the ability to access, use, interpret, and communicate mathematical information and ideas, in order to engage in and manage the mathematical demands of a range of situations in adult life

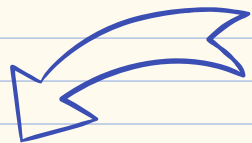


Math and numeracy habits of mind

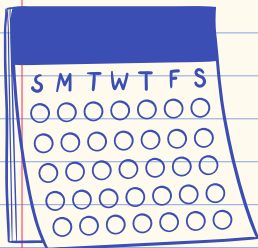
- Make sense of problems and persevere in solving them
- Use tools strategically and appropriately
- Reason and think about others' reasoning
- Make conjectures
- Look for and make use of structure



#1



Strategy for building
numeracy with digital
resiliency



Be strategic and intentional about creating opportunities

- Can I provide access to tech tools for learners to use while completing this task or solving the problem? If so which ones and why?
- What math habits of mind will learners need to solve this problem or to use this tool?
- What supports can I provide to help learners stay in the productive struggle zone (rather than the unproductive) while completing the task?



Let's identify and make connections



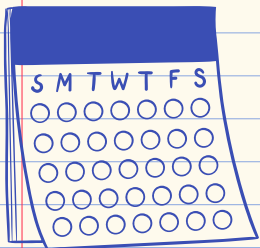


Scan the QR code to
access the Mentimeter
activity



#2

Strategy for building
numeracy with digital
resiliency



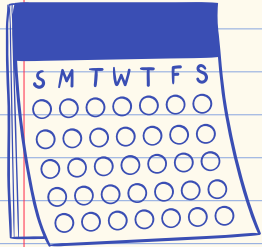
Encourage learners to lean into the opportunities in their lives

- ❑ How can I use tech tools to help me understand this situation or solve this problem more effectively?
- ❑ What are some structures that I already know/understand that will help me to make sense of this tech tool or problem?
- ❑ Is there another way I can look at this problem or a different approach to using this tech tool?



#3

Strategy for building
numeracy with digital
resiliency



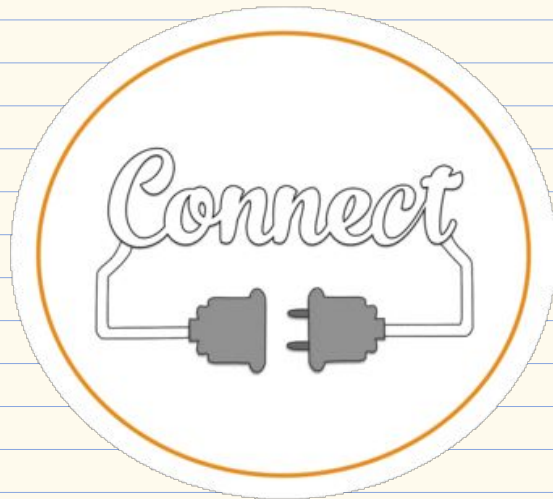


Have experiences that build confidence, knowledge and skills with proper support to recover from failed experiences and/or attempts

Digital Resilience Framework UK Council for Internet Safety (UKCIS) Digital Resilience Working Group.



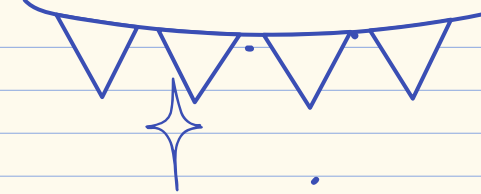
Let's Make Connections for Digital Resiliency



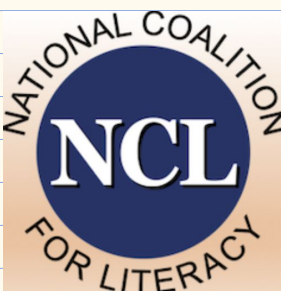
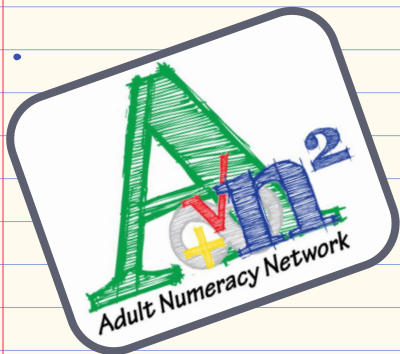
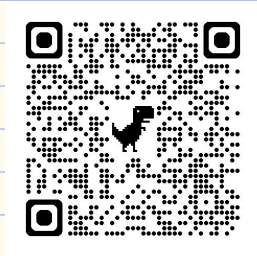
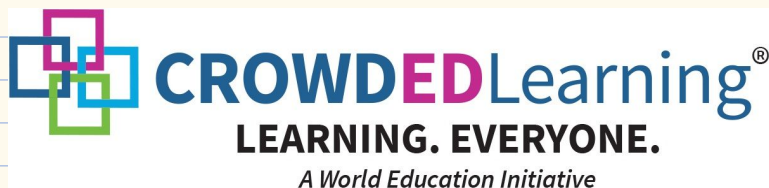


Scan the QR code to
access the Mentimeter
activity





Resources





Contact Information

Cynthia Bell

Director, Workforce Development &
Numeracy Services

cynthiab@lacnyc.org