



INSTITUTE FOR THE PROFESSIONAL
DEVELOPMENT OF ADULT EDUCATORS

Collaborative Problem Solving in Multi-Level Classes

Preparing Our Students for the 21st Century Workforce

www.floridaipdae.org

This training event is supported with federal funds as appropriated to the Florida Department of Education, Division of Career and Adult Education for the provision of state leadership professional development activities.

Presenters:

Jenna Moniz

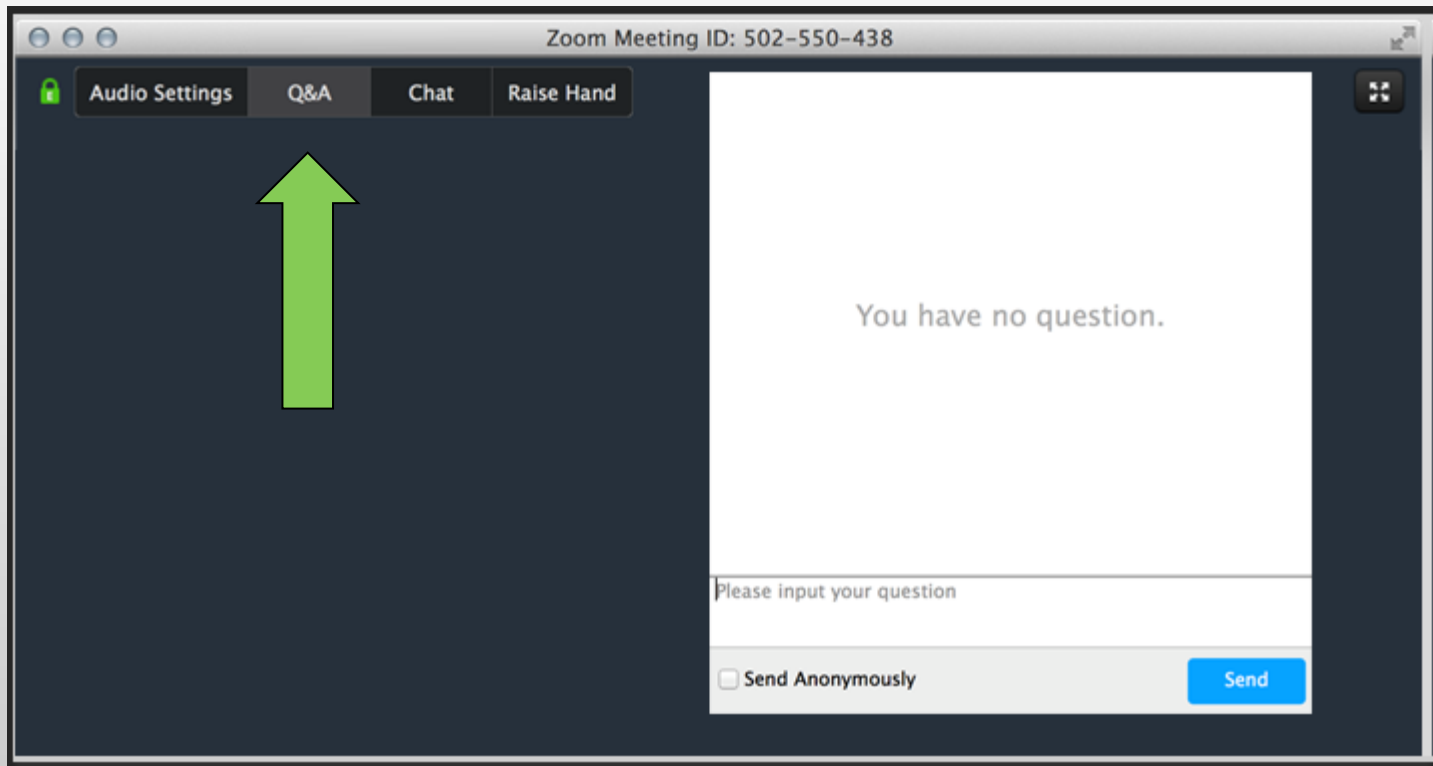
Pre-College Academic Studies

Regina Turner

Co-presenter



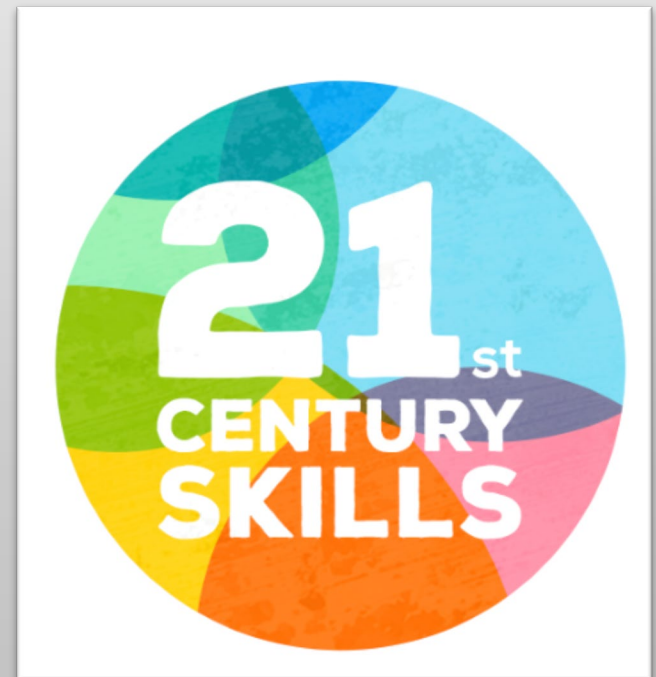
- If you have a question, please type it into the **Q&A** option.



- Attendee microphones will be muted. You will be in **listen only** mode.
- Today's presentation is being **recorded**. It will be archived and available on the IPDAE website within 48 hours.

21st Century skills comprise skills, abilities, and learning dispositions that have been identified as being required for success in 21st Century society and workplaces by:

- Educators
- Business Leaders
- Academics
- Governmental agencies



The curriculum for the 21st Century student should consist of a systematic process by which the student develops both **hard skills** and **soft skills**.

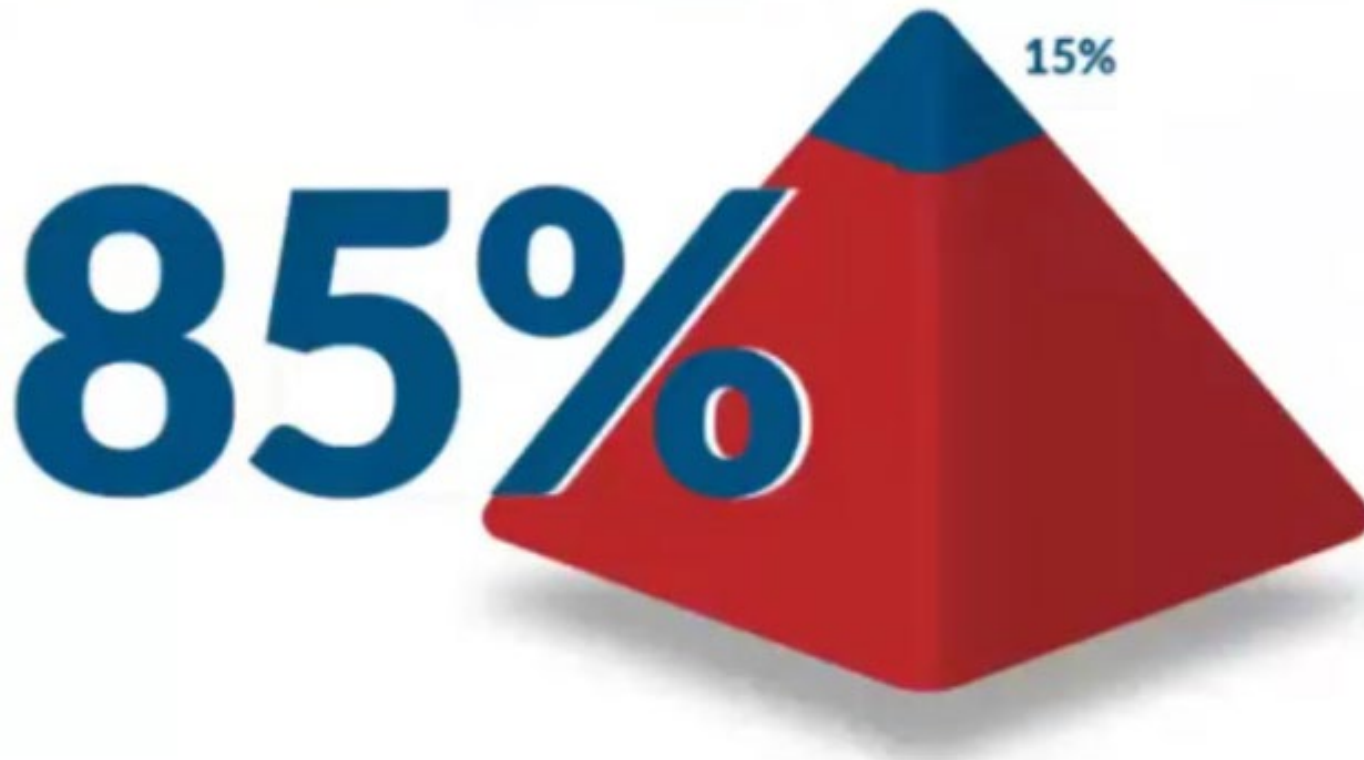


Research conducted by Harvard University,

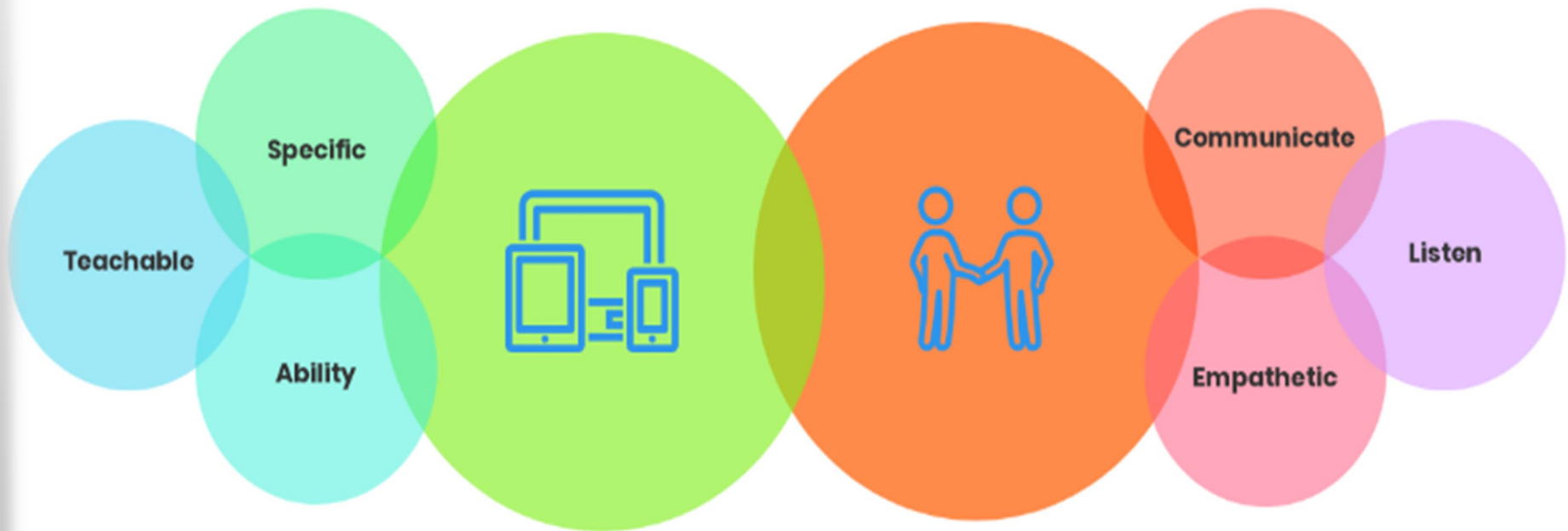
the Carnegie Foundation and Stanford Research Center, has all concluded that

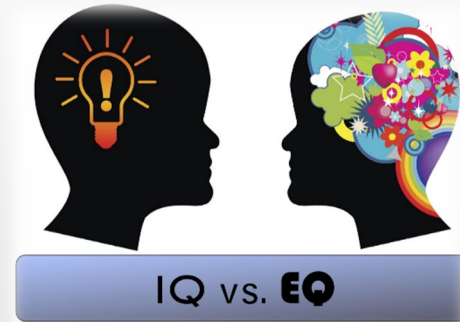
85% of job success comes from having well-developed soft skills and people skills,

and only 15% of job success comes from technical skills and knowledge (hard skills).



HARD SKILLS **VS.** SOFT SKILLS





An intelligence quotient (IQ) is a score derived from one of several standardized tests designed to assess intelligence and cognitive abilities.

“ Hard Skills”



- Computer, Reading and Math
Typing Speed
 - Foreign languages
- Data Analysis
 - Software Programming
 - Certificates or Diploma
 - First Aid
- Operating Machinery
 - Accounting
 - Graphic Design



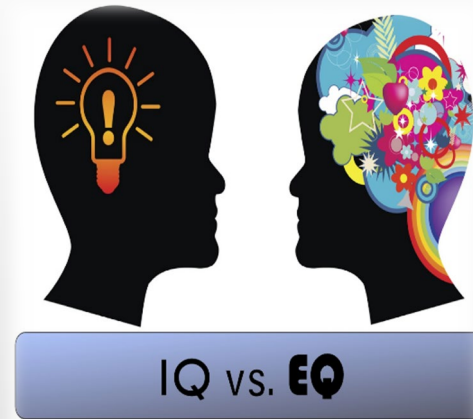
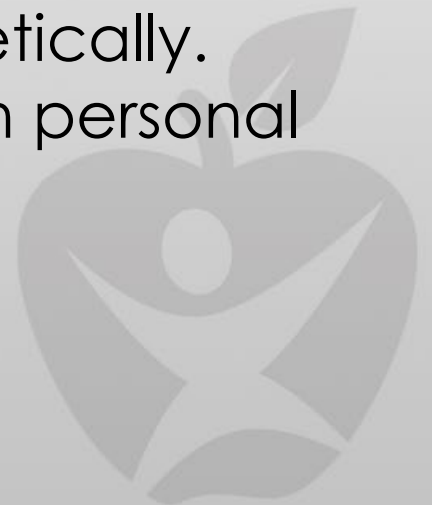


Image ©Inovision Consulting 2012

The capacity to be aware of, control, and express one's emotions, and to handle interpersonal relationships judiciously and empathetically.

"emotional intelligence is the key to both personal and professional success"

“Soft Skills”





- Patience
- Communicating Difficult Concepts
- Work Ethic
- Conflict Resolution
- Teamwork
- Flexibility
- Empathy
- Negotiation
- Managing Stress



Top 10 Skills and Attributes Employers Will Be Seeking in 2020



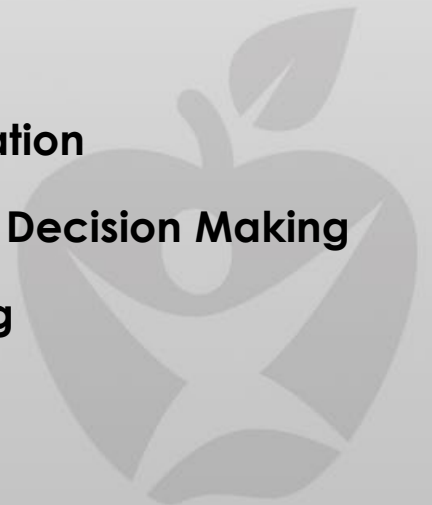
Top 10 Workplace skills

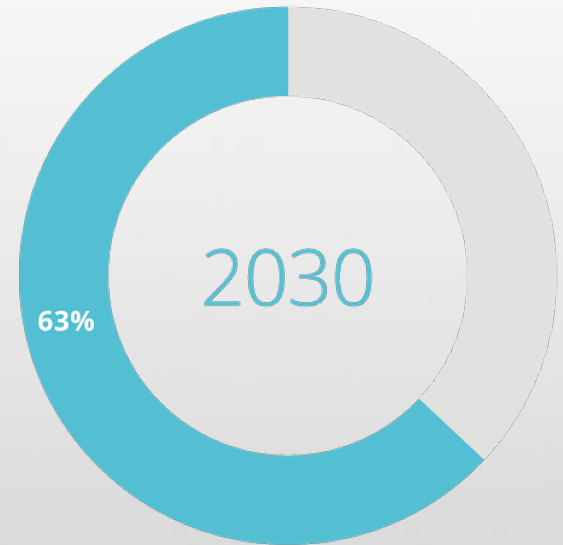
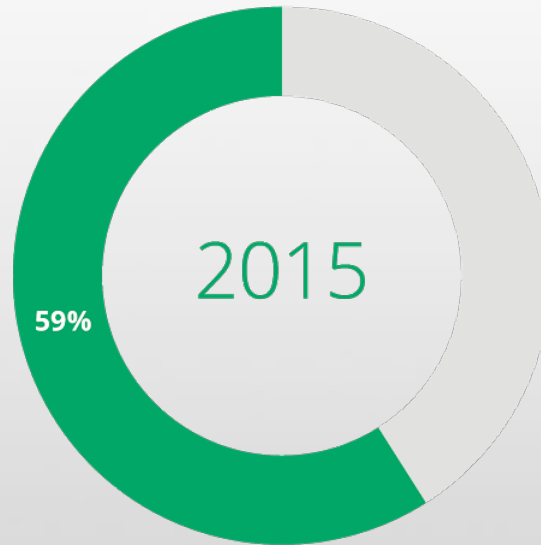
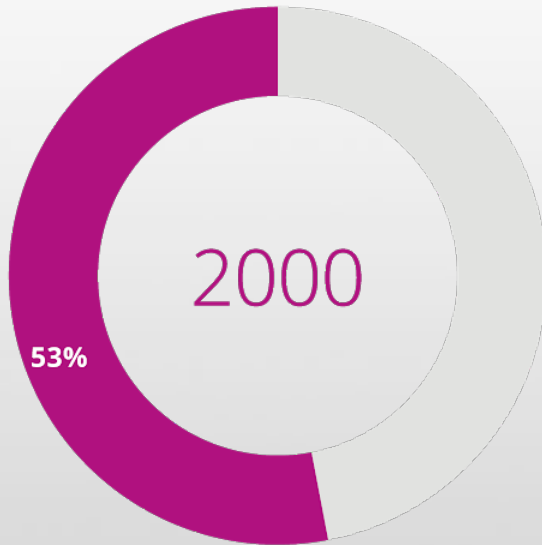
2020

1. Complex Problem Solving
2. Critical Thinking
3. Creativity
4. People Management
5. Coordinating with Others
6. Emotional Intelligence
7. Judgement and Decision Making
8. Service Orientation
9. Negotiation
10. Cognitive Flexibility

2015

1. Complex Problem Solving
2. Coordinating with Others
3. People Management
4. Critical Thinking
5. Negotiation
6. Quality Control
7. Service Orientation
8. Judgment and Decision Making
9. Active Listening
10. Creativity





■ Soft skill intensive occupations in 2000

■ Soft skill intensive occupations in 2030

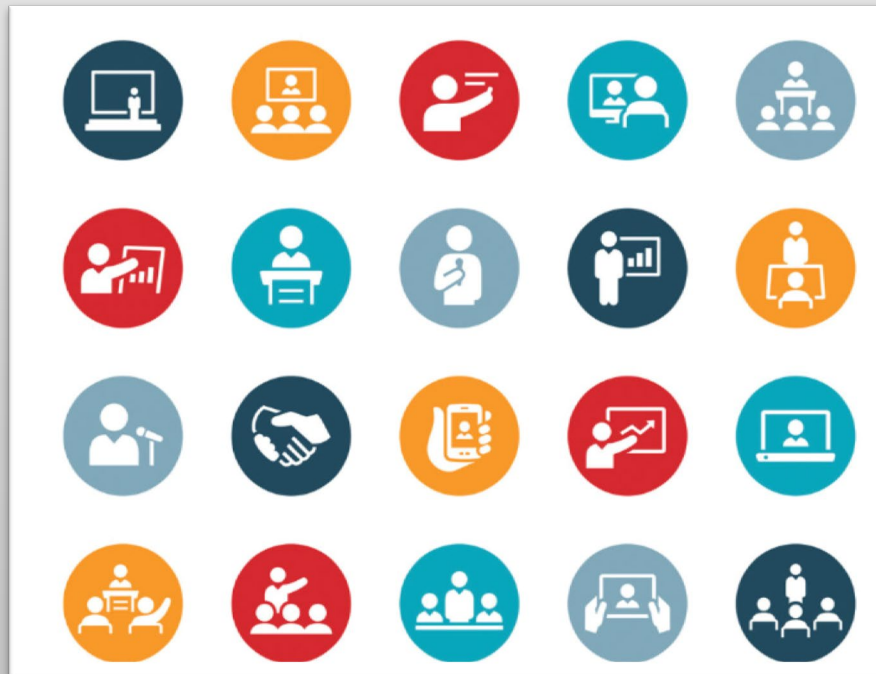
■ Soft skill intensive occupations in 2015

■ Other occupations

Source: Deloitte Access Economics



Why soft skills are so important?





IQ predicts **1-20%**
of success in a job.

EQ predicts **27-45%**
of success in a job.



Soft skills take some time to develop, but are vital in ensuring that one is an absolute professional in the workplace which truly sets oneself apart from others.



Hard skills get you the job, Soft skills push you to the top.



4 C's



Definitions from the Partnership for 21st Century Skills and Learning
Icons from iStockphoto.com

Collaboration

Working together to reach a goal
- putting talent, expertise, and
smarts to work



Communication

Sharing thoughts, questions,
ideas, and solutions



Creativity

Trying new approaches to get
things done equals innovation &
invention



Critical Thinking

Looking at problems in a new
way, linking learning across
subjects & disciplines







The 4 C's of the 21st Century Skills model are included in the top 5 workplace skills that will be sought most by employers in 2020

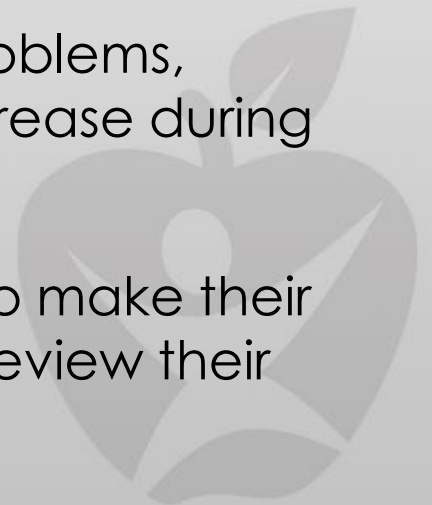


Using Project Based Learning (PBL) as a method of teaching the 4 C's.



What is PBL

- Project Based Learning (PBL) is more than just a teaching method.
- It's a revitalization of education for students so that they can develop intellectually and emotionally.
- By using real-world scenarios, challenges, and problems, students gain useful knowledge and skills that increase during their designated project periods.
- The project's proposed question drives students to make their own decisions, perform their own research, and review their own and fellow students' process/projects.



The PBL Model



The role of the teacher/facilitator is to teach students key knowledge and understanding derived from standards.



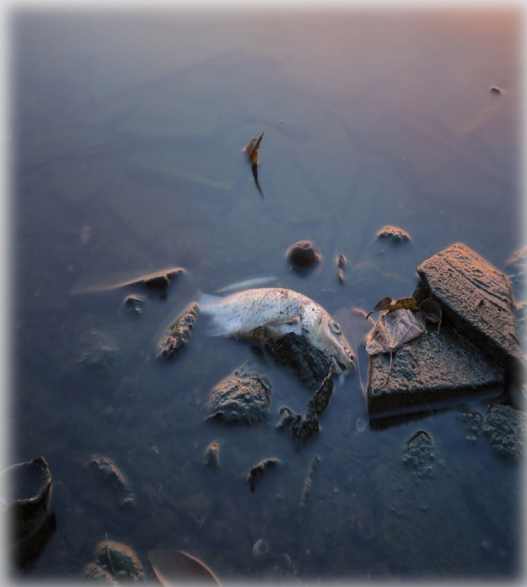
The PBL Model



Students, however, have a voice and a choice of what and how they learn the information. As a result, learning is more engaging, challenging and meaningful.



The *Scientific Method* was applied to investigate the effect of air and water pollution and the health of living things.



Ocean Animals



Plants



Humans

CCR Science Standards Assessed:

- I. Identify and refine Hypothesis for scientific investigations
- II. Identify and interpret Independent and Dependent Variables.
- III. Evaluate whether a Conclusion is supported or challenged by a particular Data or Evidence.
- IV. Express Scientific information on findings visually



The following Cross Curricular Standards from RLA, Social Studies and Math were also assessed.

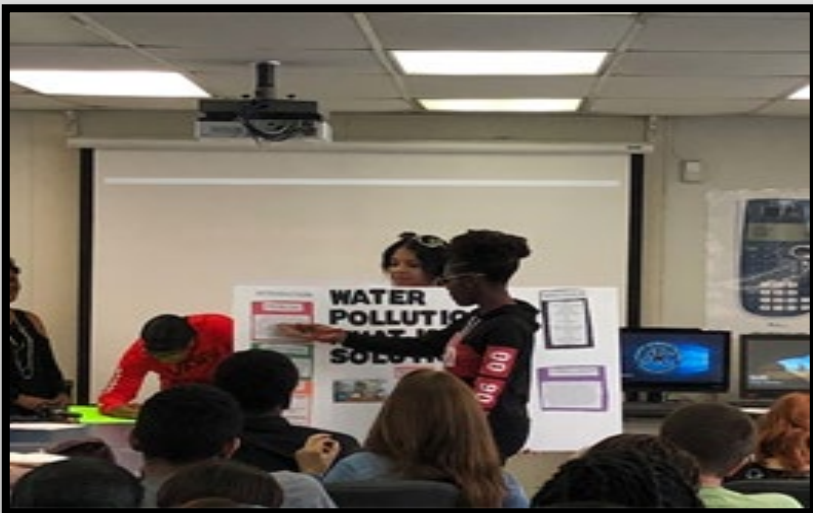
- CCR RLA : R.8.3 – Evaluate the relevance and sufficiency of evidence offered in support of a claim.
- CCR SS : SSP.3.c – Analyze cause and effect relationships and multiple causation, including source, corroborating or challenging conclusions with evidence.
- CCR Math: Q.6.a – Represent, display, and interpret categorical data in bar graphs or circle graphs.



The process –Collaborating, Critical Thinking and Creativity



Communicating their results among peers



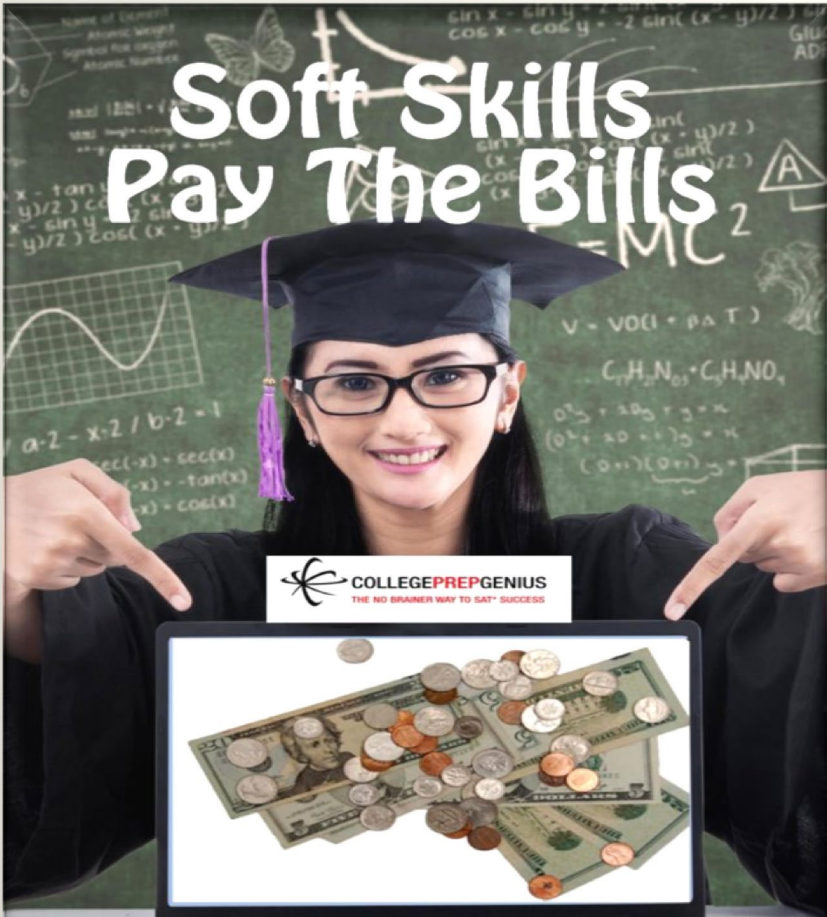
SOFT SKILLS:

A TICKET TO EMPLOYABILITY!




**Make sure you
show off your
soft skills
right!**





**Soft Skills
Pay The Bills**

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We Want Your Feedback!

Please respond to the displayed questions.



**Thank You For
Attending!**

