

— **Preparing students  
for the future through  
21st Century Learning**



# Introduction Activity



# What the workforce demands?????

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In a study conducted by P21, 431 employers, representing over 2 million employees, were surveyed on the most important skills for the growing workforce.

# What the workforce demands?????

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Those important skills included “oral and written communications, professionalism and work ethic, critical thinking and problem-solving, and creativity and innovation.”

(Soule and Warrick, 2015, p. 180)

# What did they find?????

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Over half of respondents reported that students graduating from high school were highly deficient in these critical skills.

# What did they find?????

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Also, over one quarter of the employers responding claimed that students graduating from 4-year college programs lacked these skills as well.

# 4Cs Instruction

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**Communication:** For information to flow effectively, individuals must possess skills that enable them to communicate efficiently through a variety of mediums.

**Collaboration:** Much of all significant work is accomplished in teams and in many cases, global teams. (P21.org)

**Creativity:** The learner becomes owner of their learning and is responsible for seeking and securing the necessary guidance, knowledge, skills, and support to make high-quality products. (Zhao, 2012)

**Critical Thinking:** Innovation requires individuals that can conceptualize situations and tasks that involve resolving a conflict or solving a problem.

# School without the 4Cs

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# School With the 4Cs

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# District Leadership Team

# District Leadership Team

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The District Leadership Team (DLT) is a leadership team of administrators and teacher leaders who discuss and make decisions related to curriculum, instruction, assessment, and professional development.



# District Leadership Team - Purpose

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## Shared Leadership

- ❖ The DLT works through the implementation process of initiatives put forth by the superintendent and develops revisions or a plan for district wide implementation.
- ❖ The DLT is involved in establishing and reviewing the district educational plans, goals, performance objectives, and major classroom instructional programs.
- ❖ The DLT assists the superintendent annually in preparing, reviewing, and revising the District's Strategic Plan

# District Leadership Team - “Projects”

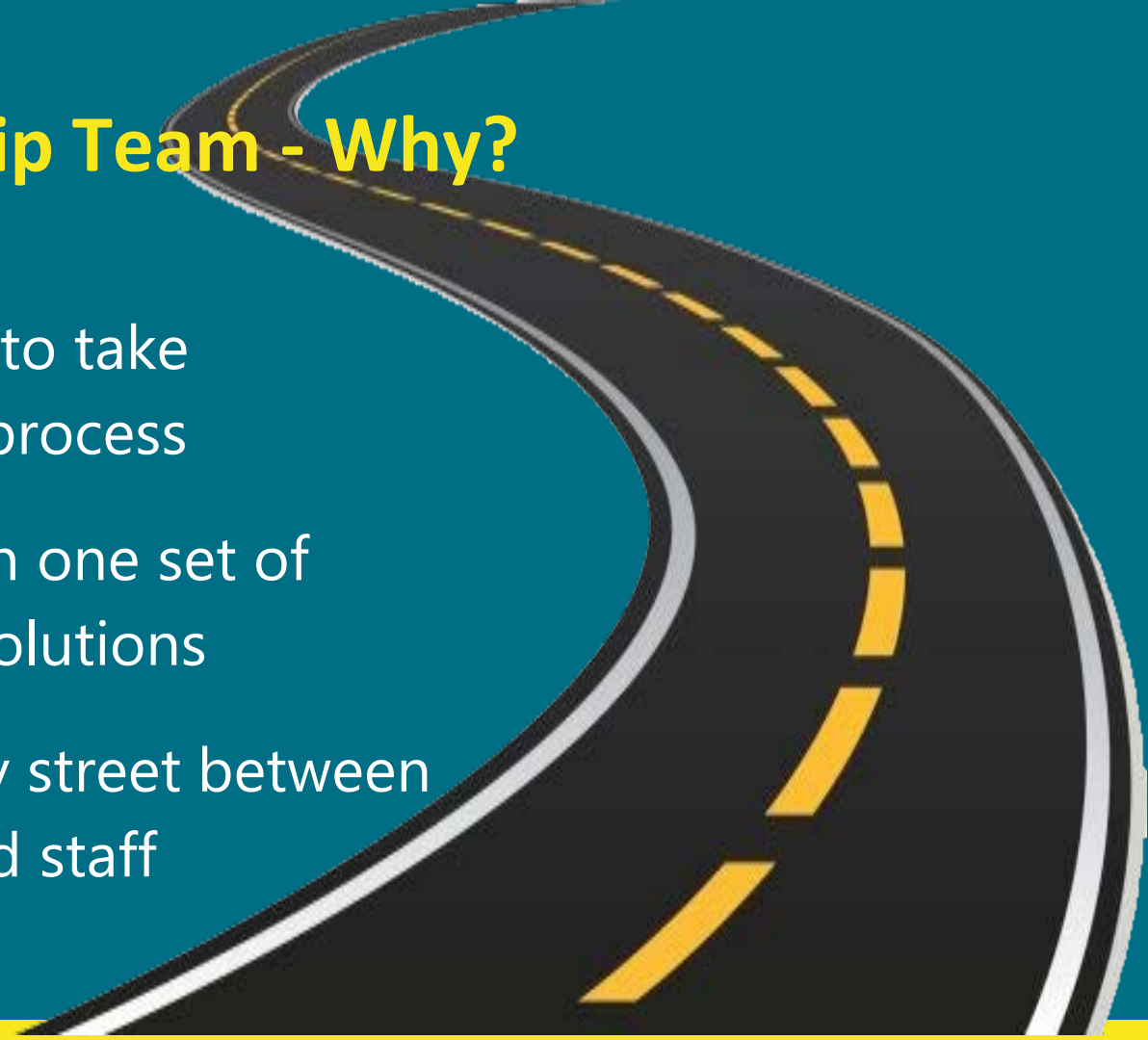
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Since our DLT was formed, we have worked on/are working on:

1. Developing a district wide implementation process for PBL
2. Holding parent forums to keep our stakeholders up to date as to what is happening at Richland
3. AdvancED Accreditation
4. Revamping Schedules at the High School
5. Book Studies
6. Technology Initiative - 1 to 1 PIDs

# District Leadership Team - Why?

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- ❖ Teachers are able to take ownership in the process
  - ❖ There is more than one set of eyes looking for solutions
  - ❖ It forms a two way street between administration and staff
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# Richland #44 Process

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- Participated in discussion panels with Ted Dintersmith, viewed Most Likely to Succeed
- MLTS shown to district patrons
- Trip to High Tech High for administration and DLT
- ESSA signed into law December 2016
- Second trip to High Tech High for administration, school board, and parents

# Richland #44 Process

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- 3 Parent forums conducted to answer questions and concerns from parents
- Community forum helped to answer questions and concerns from community members (NDDPI assisted).
- DLT created an implementation plan for PBL
- School Board voted to support the implementation of PBL
- Summer 2017: teachers received PBL training through the Metro Schools academy
- DLT members received Buck Institute training for PBL 101 through EdLeader21 institute in Eden Prairie



# Richland #44 Process

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- Participation in EdLeader21 district-wide: attendance at the EdLeader21 Annual Event in Atlanta
- DLT members who attended Eden Prairie training will go on to receive BIE coach training summer 2018
- Innovative instructional waiver will be submitted to NDDPI spring 2018

Richland #44 Process

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#CarnivoreNation

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**How does  
project-based learning  
Support Student Engagement?**

# The use of project-based learning results in increased student engagement for several reasons:

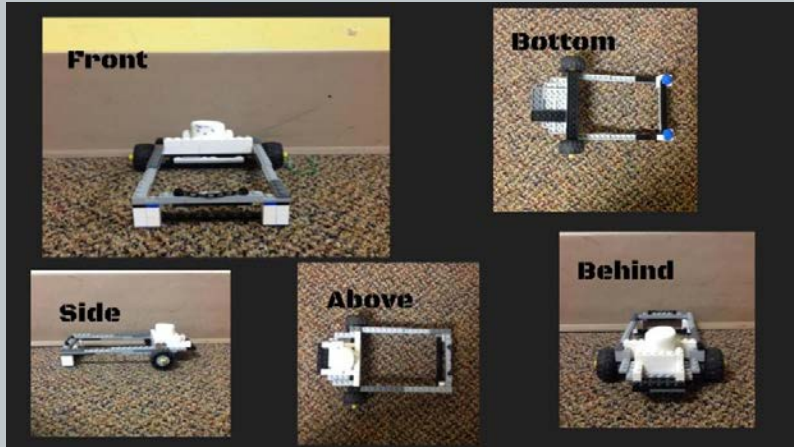
- ★ PBL presents opportunities for authentic investigations and presentations.
- ★ PBL lends itself to students' working and learning collaboratively.
- ★ PBL enables students to be active learners. They take charge, question, make decisions, analyze, think critically, create, present – they become independent thinkers.

# Project Based Learning In Our Classrooms

DQ: Using the engineering process, design a chariot to demonstrate the Ancient Roman chariot races.

Video

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# PBL In the Classroom Cont.

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DQ: As chefs, how can we create a healthy meal?



# Resources

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Buck Institute: [www.bie.org](http://www.bie.org)

Edutopia: <https://www.edutopia.org/project-based-learning>

21st Century Learning: <http://bit.ly/2mcDqVC>

PBL Super Highway: <http://bit.ly/1K5JMg5>

Theme Spark: <https://www.themespark.net/>

# RELATIONSHIP BETWEEN THE BOARD & SUPERINTENDENT



# **TIME & EFFORT REQUIRED TO LEARN ABOUT INNOVATION**

# OBLIGATION TO OUR YOUTH

**YOU CANNOT TOUCH A SCHOOL WITHOUT  
TOUCHING THE CULTURE OF THE SURROUNDING  
COMMUNITY.**

# TIPS FOR SUCCESS

- UNDERSTAND APPLICABLE POLICIES (CURRICULUM, TEACHING METHODS)
- PUT IN THE TIME AND EFFORT TO BECOME EDUCATED ON INNOVATION IN ND
- COMMUNICATE OFTEN AND IN DEPTH WITH THE PUBLIC
- SEEK OUT EXPERTS TO HELP EDUCATE STAFF AND PUBLIC
- INVEST SUBSTANTIAL RESOURCES INTO PROFESSIONAL DEVELOPMENT
- HAVE A PLAN TO BRING NEW BOARD MEMBERS UP TO SPEED
- BE PREPARED FOR PUSHBACK
- BE PREPARED TO SEE SOME STAFF MOVE ON

IS THIS GOOD FOR KIDS?

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YES, IT IS!!!!!!

# Driving Question

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As engineers, how can we create an aerodynamic plane that will travel the furthest?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Flight Distances Worksheet

**Directions: Fly your airplanes three times each, and record the distance of each flight to the nearest foot. Take your three measurements, add them together, and divide by three to get your average flight length.**



First Plane Design

Flight #	Length in feet
1	
2	
3	
Average	

Second Plane Design

Flight #	Length in feet
1	
2	
3	
Average	

<http://bit.ly/PBLAdvancED>



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