Advancing Equity Through Effective & Efficient Data Analysis and Implementing Changes

Mr. Aaron Kipp and Dr. Bill Macdonald
Learning Intentions

We are learning about Topeka Public Schools use of data and data analysis to advance equity and improve student learning.

Success Criteria

I know I am successful when I can:
1. Explain the basics of data use and how it can support equity
2. Describe how a data repository can support analysis
3. Understand how data can be collected through the use of a custom app
4. Compare Data Consults to Grand Rounds
About Topeka Public Schools

Demographics – 13,400 students

- African American: 17.98%
- White: 37.10%
- Hispanic: 32.39%
- Other: 12.53%
Subgroups

- **POVERTY 73%**
  - Non-Econ. Disadvantaged: 27.22%
  - Econ. Disadvantaged: 72.78%
- **SPED 21%**
  - Students with Disabil.: 20.82%
  - Students without Disabil.: 79.18%
- **ELL 13%**
  - ELL Students: 13.19%
  - Non-ELL Students: 86.81%
Transforming Data into Action

Source: Mohanty (2013)
4 V’s of Data

1. Volume – the amount or scale of data.

2. Velocity – the speed at which data is being generated, produced, created, or refreshed. (i.e. 40,000 Google searches per second.)

3. Variety – structured and unstructured data from multiple sources.

4. Veracity – confidence or trust in the data.
Highest 4 year graduation rate in 9 years for:

African-American and White students.

100% Grad rate for TWHS African-American students.

100% Grad rate for TWHS EL students.

EL (English Learner) students.

Free-Lunch students.

Special Education students.
Tyler PULSE Data Warehouse

• Data analytics tool

• Central repository that combines and transforms data from multiple databases within the district

• Development of custom reports

• Used to monitor & predict trends and to evaluate outcomes from interventions and initiatives
Data Consults

• Monthly consults with building leaders & staff and senior level central office leaders

• One hour session devoted to “What are students learning and how do you know?”

• Similar to PLC, but based on building data

• Modeled after Grand Rounds methodology
  • Primary focus is on improving student learning, but allows for on-the-job training and education of building leaders

• Deep dive in to student data focusing on “opportunities”

• Development of “30 Days From Now” list
Data Consults - video
Turn and Talk

What do you do when the data completely disagrees with what your gut says?
Walk-Through App

• Evaluation of district implementation of Visible Learning (Teacher Clarity)

• Not an observation / evaluation of teachers, but rather observation of students and learning

• Evidence of Learning
  • Awareness of each student’s progress on the journey from his/her starting point toward attaining the success criteria
  • How close is each student to attaining the success criteria?
  • What now needs to occur to help each student to move closer to meeting the success criteria?
Walk-Through App - Demonstration
Outcomes

- Five schools outperformed the state on 2019 KAP – ELA
- Eight schools outperformed the state on 2019 KAP - Math
- Multiple teachers had 75% or higher proficiency rates
- Closing of “Graduation GAP” by ethnicity
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Questions