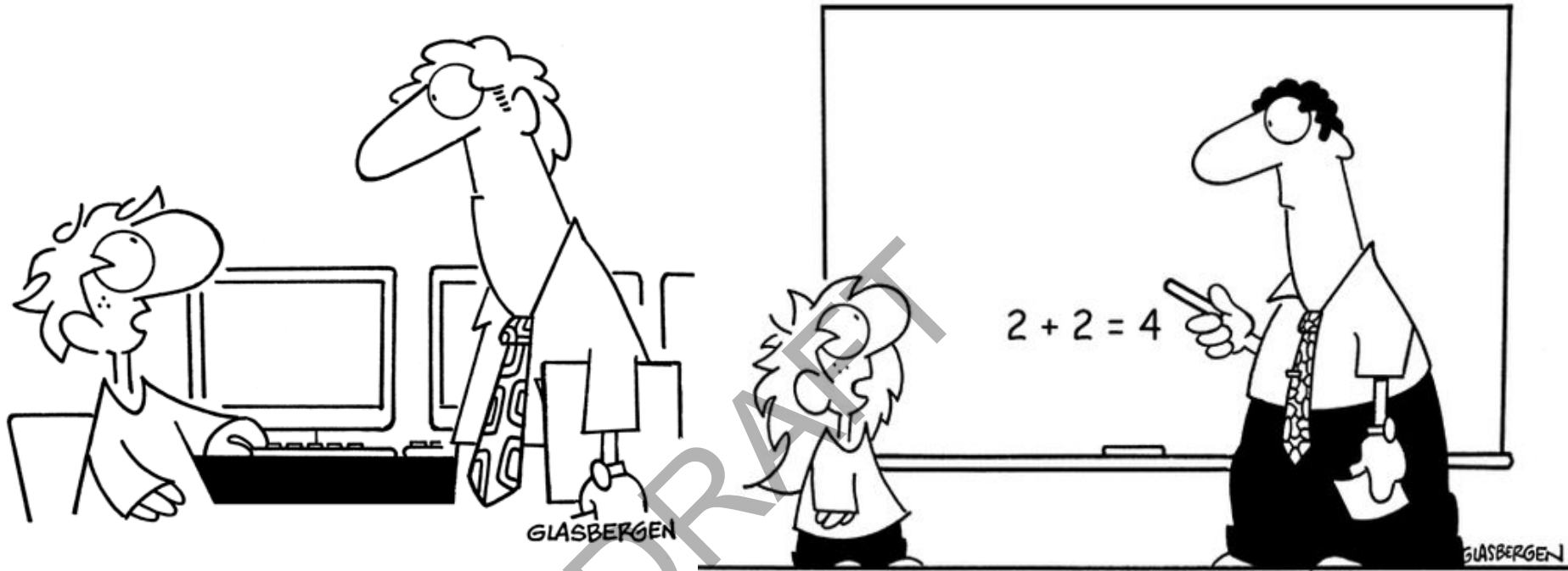




Camdenton R-3 State of Technology & STEM Education

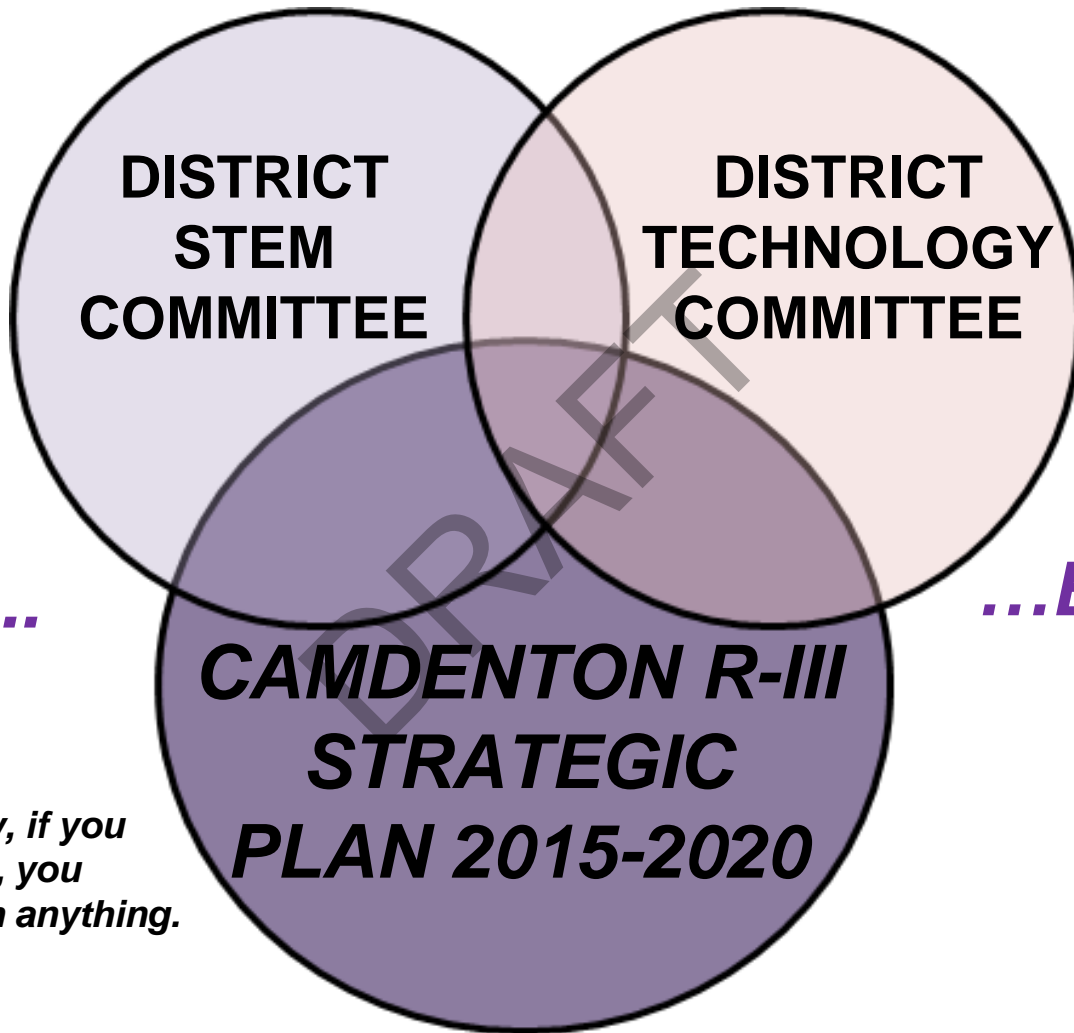
March 13, 2017



“I won’t be impressed by technology in the classroom until you figure out how to install Google directly in my brain.”

“How can I trust your information when you’re using such outdated technology?”

“We need technology in every classroom and in every student and teacher’s hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world.” - David Warlick



*Everyone
Learning.....*

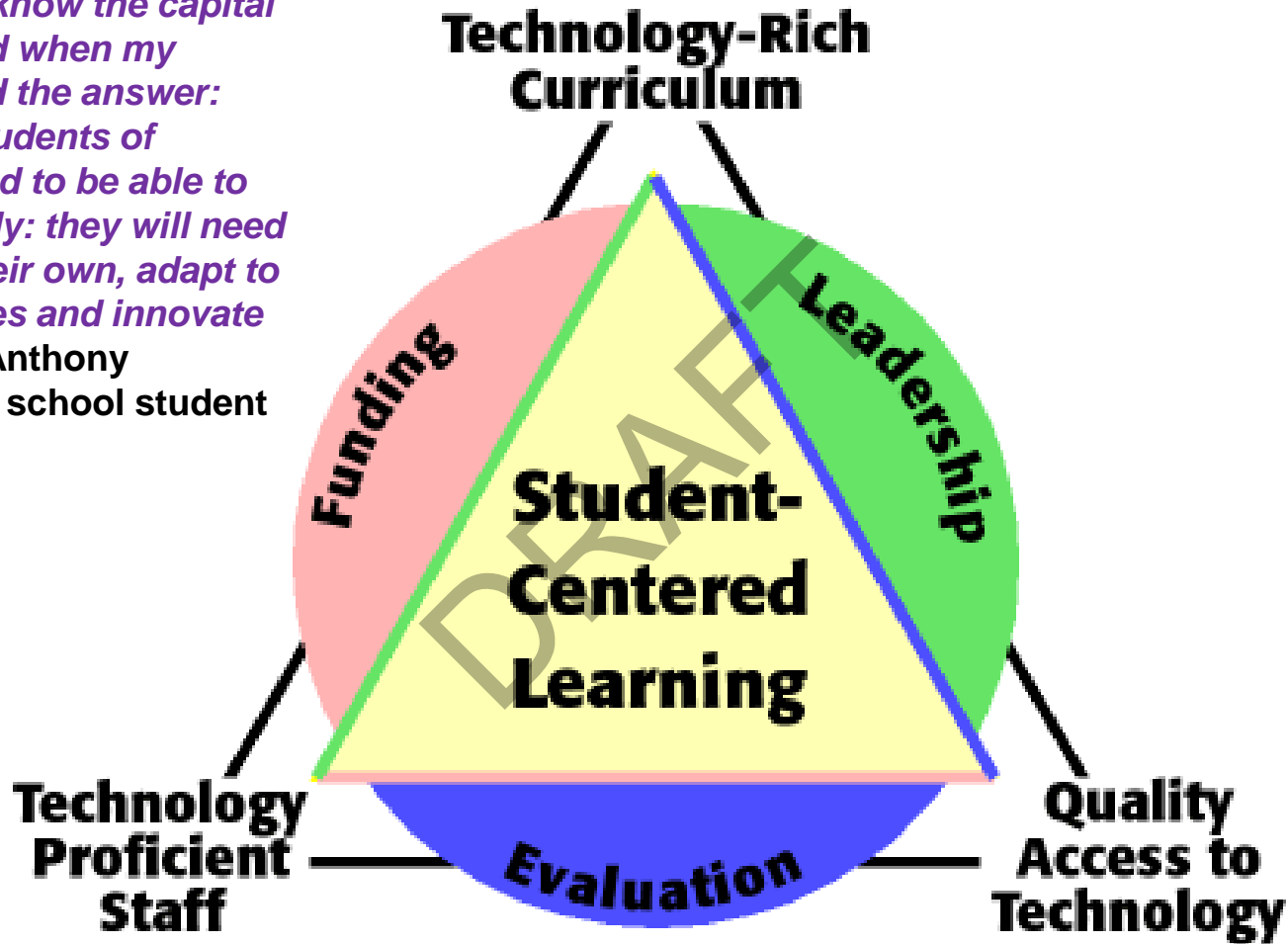
...Every Day!

*After teaching all day, if you
didn't learn anything, you
probably didn't teach anything.*

-Don Taylor



"The need to know the capital of Florida died when my phone learned the answer: Rather, the students of tomorrow need to be able to think creatively: they will need to learn on their own, adapt to new challenges and innovate on-the-fly." - Anthony Chivetta, high school student in Missouri



OUR DAILY ROAD MAP.....

CR-3 STRATEGIC PLAN 2015-2020



VISION STATEMENT

- **EVERYONE LEARNING EVERY DAY**

MISSION STATEMENT

- **The Camdenon R-III School District will create a learning community that maximizes each individual's performance for future success.**



Camdenton R-III District *TECHNOLOGY* Plan

GOAL

A connected learning community will be developed through a comprehensive technology plan that identifies, develops, and provides access to the digital tools, devices, and support that will expand visionary administrative leadership, improve teacher effectiveness, and raise student achievement.

COMPREHENSIVE DISTRICT TECHNOLOGY PLAN

Created last year (2015-2016)

Collaborative effort with many stakeholders (students, parents, teachers, community members, etc.)

Supports District Strategic Plan (2015-2020)



Camdenton R-III District *TECHNOLOGY* Plan

GOAL

A connected learning community will be developed through a comprehensive technology plan that identifies, develops, and provides access to the digital tools, devices, and support that will expand visionary administrative leadership, improve teacher effectiveness, and raise student achievement.

GOAL AREAS - STRATEGIES AND ACTION STEPS

Innovative Teaching and Learning

Connected and Collaborative Learning Community

Ethics, Responsibility, and Equity


Systems and Procedures



Framework for assessing and evaluating progress - example

Goal Area: Innovative Teaching and Learning

Objective: To effectively integrate technology into instruction to enhance learning for all stakeholders and ensure college and career readiness.

Strategy	Action Step	2016-2017 Focus Area	Artifacts	Persons Responsible
<p>Enhance learning opportunities for staff on how to effectively integrate technology.</p>	<p>Identify and implement instructional practices (such as project-based learning, Project Lead the Way, S.T.E.M.) that inherently require the integration of technology into the teaching and learning process.</p>	<p>PLTW Staff PD Training (Launch)</p> <p>STEM Committee Site Visits</p> <p>GOCS D Innovation Summit</p> <p>GOCS D PD Opportunities</p>	<p>PLTW Training certificates and district certification</p> <p>Site Visit Meeting Minutes</p> <p>Innovation Summit agenda, conference guides, presentations</p> 	<p>PLTW Teachers, STEM Committee, Library Media Specialists, Instructional Coaches, Director of STEM Education</p>

Camdenton R-III District *TECHNOLOGY* Plan

Current and Future Initiatives

- District 1 – 1 Student Device Plan
- BrightBytes Survey Tool & Analysis
- 5 year Teacher & Lab Device Plan
- *5 year IT Infrastructure Plan*
- *District Technology Safety & Security*

Camdenton R-III District *TECHNOLOGY* Plan

District 1 – 1 Student Device Plan

- Goal: **3:1** (K – 2), **2:1** (3 – 4), and **1:1** (5 – 12)
- Phased approach – Goal achieved by 2020
- Reallocation of older devices + new devices
- District managed - leverages volume purchases
- Device follows student until EOL
- Funded by budget reallocation (priority mod's)

Camdenton R-III District *TECHNOLOGY* Plan



- **Technology data acquisition tool**
- **Student, Teacher, Parent input**
- **Baseline data & assess and evaluate progress**
- **Supports Tech., STEM, IT, PD, Curriculum**
- **Performed annually**
- **GOCS D and National comparisons**
- **Research based resources for improvement**

- Emerging
900-999
- Beginning
800-899



- Exemplary
1200-1300
- Advanced
1100-1199

CASE™ Score

1056 Proficient

BENCHMARKS	DATE	OVERALL	CLASSROOM	ACCESS	SKILLS	ENVIRONMENT
All Technology & Learning	As of Dec 28, 2016	1063	978	1180	1128	1082

Service Agency Districts Schools

SERVICE AGENCY	DATE RANGE	OVERALL	CLASSROOM	ACCESS	SKILLS	ENVIRONMENT
Greater Ozarks Cooperating School Districts	2016 - Present	1058	977	1163	1121	1079

Service Agency Districts Schools

DISTRICTS	DATE RANGE	OVERALL	CLASSROOM	ACCESS	SKILLS	ENVIRONMENT
Camdenton R Iii	Jul 1, 2016 to Present	1056	987	1148	1130	1058

- Emerging
900-999
- Beginning
800-899



- Exemplary
1200-1300
- Advanced
1100-1199

CASE™ Score

1056 Proficient

Classroom

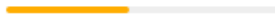


Use of the 4Cs

Teachers

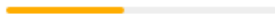


Students



Digital Citizenship

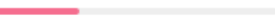
Teachers



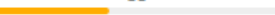
Students



Assessment



Assistive Technology



Access



Access at School

Teachers



Students



Access at Home

Teachers



Students



Skills



Foundational

Teachers



Students



Online

Teachers



Students



Multimedia

Teachers



Students



Environment



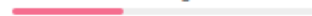
The 3Ps



Support



Professional Learning



Beliefs

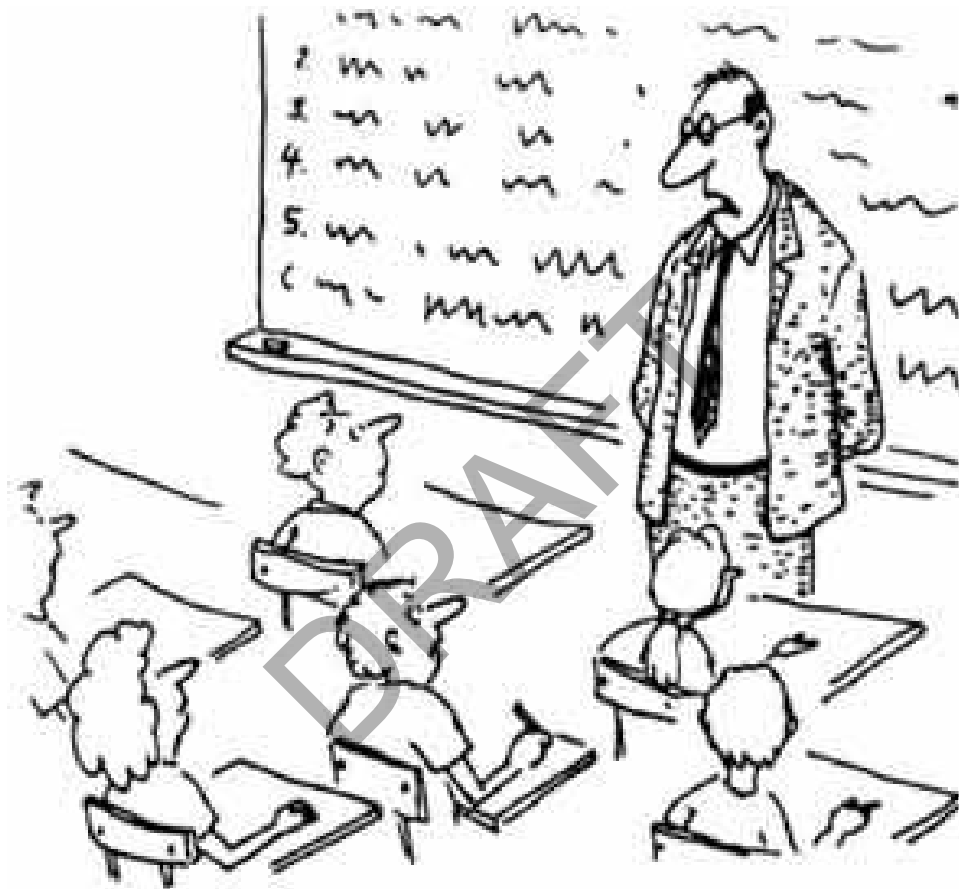


Camdenton R-III District *STEM* Plan

Strategic Plan STEM Strategies / Goals / Objectives (College & Career Ready Curriculum)

- 1. S.T.E.M. courses will increase in number by the 2016-2017 school year, will be equivalent to peer districts by the 2017-2018 school year, and will offer at least one unique course in this area (not available in all peer districts) by the start of the 2020-2021 school year.**
- 2. A district team (faculty, staff, administration, students, etc.) will be selected to be responsible for researching leading-edge S.T.E.M. courses in regional peer districts, statewide and, where appropriate, nationally.**

?



?

"I expect you all to be independent, innovative, critical thinkers who will do exactly as I say!"

Camdenton R-III District *STEM* Plan

- District STEM Committee formed 2015-2016
- Defined STEM & District STEM Snapshot
- Researched STEM Frameworks (Carnegie)
- Developed Action Plan (PLTW)
- 2016-2017 Site Visits & Course Additions
- PLTW Re-certification effort



Camdenton R-III District *STEM* Achievements

- Added new STEM Courses
- Site visits to Blue Springs, Liberty, Nixa, West Plains (future implementation & training visits)
- Completed study of K-6 STEM framework – have recommended PLTW Launch
- Proposed Launch Phase 1 Plan to Principals
- Track progress via Carnegie STEM Pathway



Camdenton R-III District *STEM*

Course Additions 2017-2018

- **PLTW Engineering Design & Development (HS)**
 1. *Engineering Capstone Course*
- **PLTW Principles of Biomedical Science (HS)**
 1. *PLTW Biomedical Science Pathway*
 2. *College credit available for each course (MS&T-Rolla)*
- **PLTW Gateway (Middle School)**
 1. *Computer Science*



Camdenton R-III District *STEM*

****PLTW 100% Student Access Award****



Emerging
900-999

Beginning
800-899

Camdenton R-III District *STEM* BrightBytes Baseline Data

Exemplary
1200-1300

Advanced
1100-1199

CASE™ Score

1056 Proficient

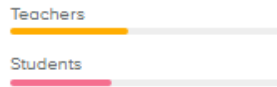
Classroom



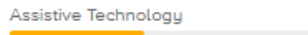
Use of the 4Cs



Digital Citizenship



Assessment



Assistive Technology



Access



Access at School



Access at Home



Skills



Foundational



Online



Multimedia



Environment



The 3Ps



Support



Professional Learning



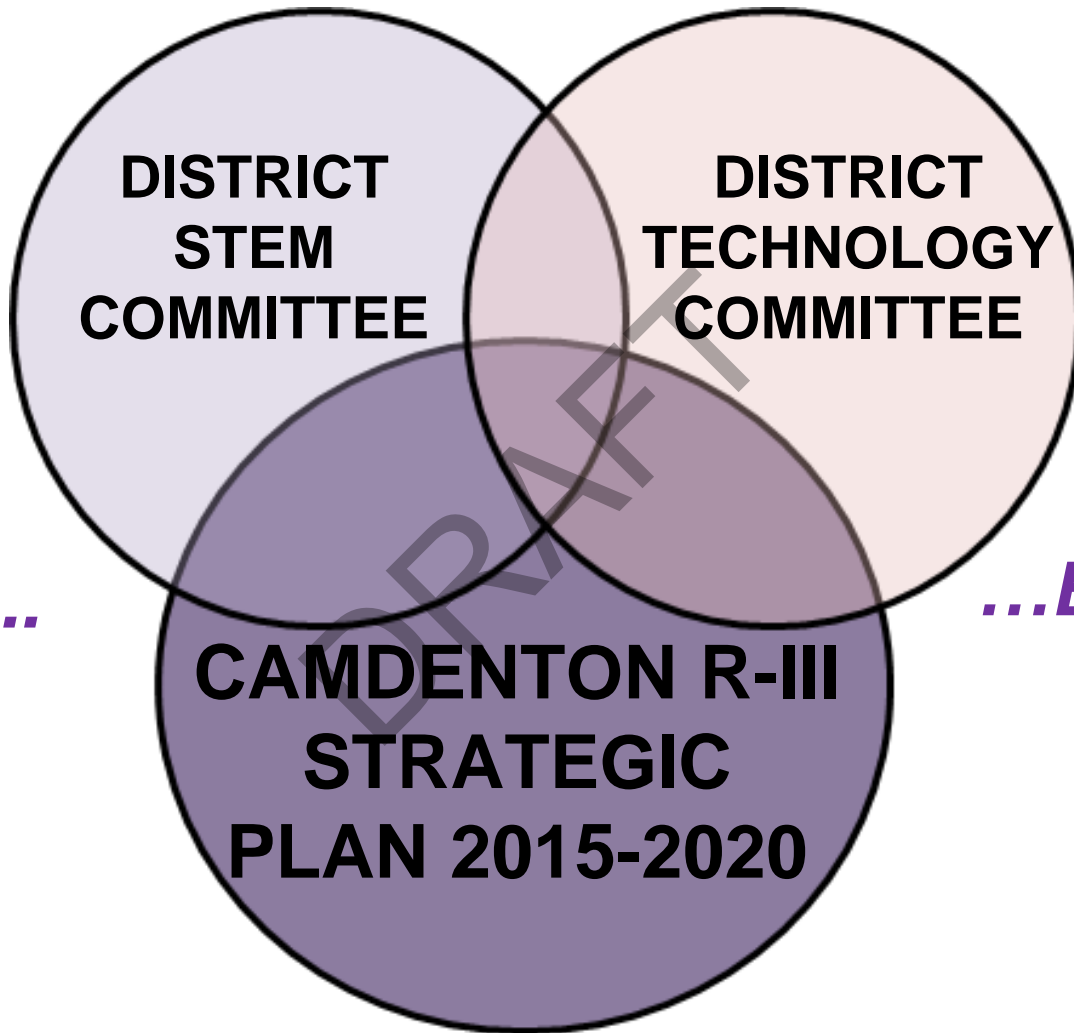
Beliefs



Camdenton R-III District *STEM* Plan - FUTURE

- Implement STEM K – 6 framework (PLTW Launch)
- Framework phase I plan, schedule, budget
- Curriculum integration & standards alignment
- Monitor, evaluate, assess progress to plan
- District alumni longitudinal STEM data analysis
- Support HS & MS PLTW programs





Everyone Learning.....

...Every Day!

