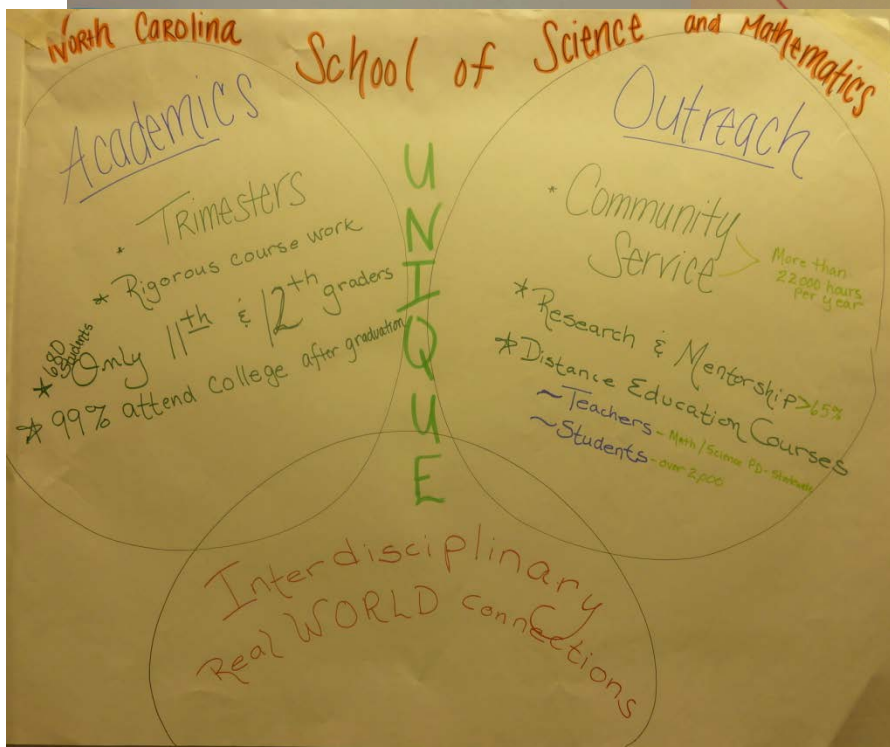
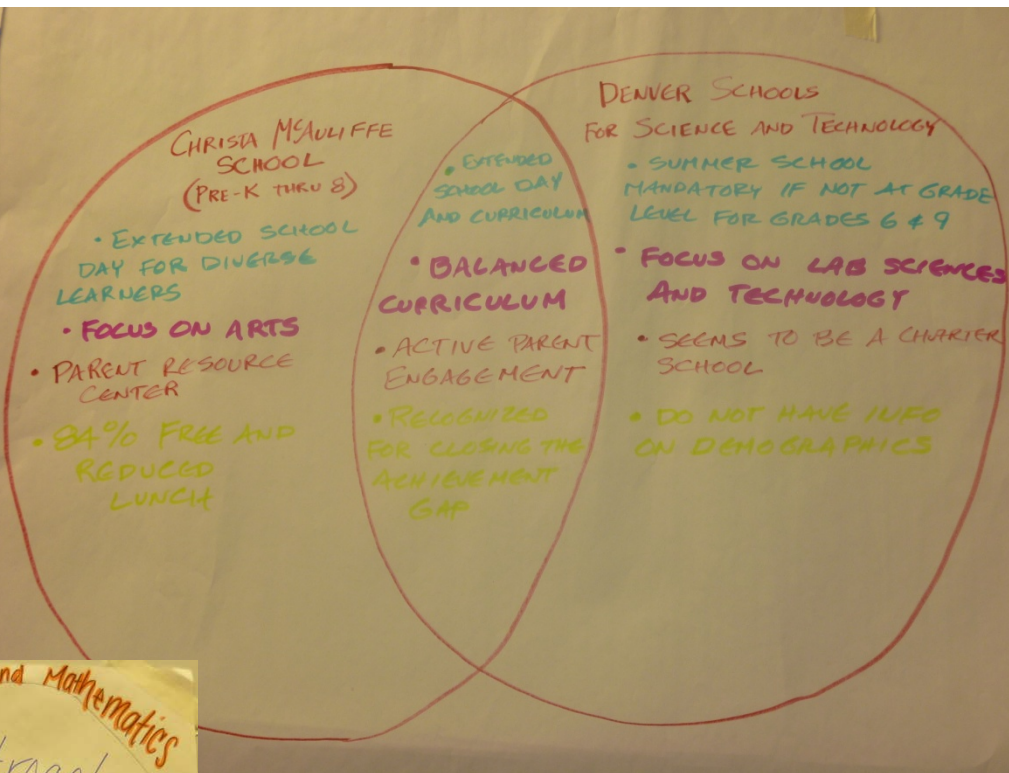






Students inspired through
Teamwork and
Engagement,
Applying knowledge and s



QRSD Outcome #3

Community Engagement/ Outreach (CSL projects)

H.S.

Recycling club

Prof. Devol.
Proj.
Chisem

HS-MS
Friday
Afternoon -
featuring
STEM

After School
After School class
"Green"
service
learning

Prof. development
Gross in
the middle

- Parent night
Info for
Bridges Program
STEM
Projects
displayed.

Science
Fair
- Display at
the show
PARENT
STEM
ACADEMY

Middle

Johns Program
Green Club
Leadership
team
(5-6)

Service
Learning
(4-6)

PD (4-6)
Service Learning

FAMILY FID
NIGHTS

(4-6)
WEEKLY
NEWSLETTER

Elementary

Celebrate
the
Child
Art/Music/Dance

Community
Math
Day
(K-6)

DIGITS
6-6

DIGITS

STEM FID
ACADEMY

QRSD Outcome #1 ENROLLMENT

(Retain QSD students)
Recruit School Choice

H.S.

Bridges
Program

1 New
Science
Elective
Engineering
Lab

Inform
school of
Bridges
#1

Inform
school of
Bridges
#1

Inform
school of
Bridges
#1

Inform
school of
Bridges
#1

Open
House
#1

Parent
night
Info for
Bridges
Program

Middle

Use
of
technology

After
School
Middle school
programs

Elementary

Step Up
Day

QRSD Outcome # 2

Transition [Elementary \rightarrow Middle/High]
and Post-Graduation.

(STEAM Literacy)
21st Cent. Skills)

(Post graduation:
STEM college majors
STEM Careers)

Bridges Program

- Engineering
- Medical

High School
After School
CLUBS

- Rocket
- Robotics
- Astronomy

H.S.

Middle

Parent Academics

Elementary

QRSD Outcome # 4
Assessment

↑ MCAS scores
↓ Achievement gaps
 * Special Ed
AP Scores
Math Benchmark scores

H.S

Middle

Elementary

MEMSI
Saturday
Session

jgno9
E20/20

After sexual
MCAS
supra

R+6
Engineering
Math
11

E: E

MCAS
fulcrum

Engineering
Literary
(K-L)

APS
Program

STEM Integration for District Leaders

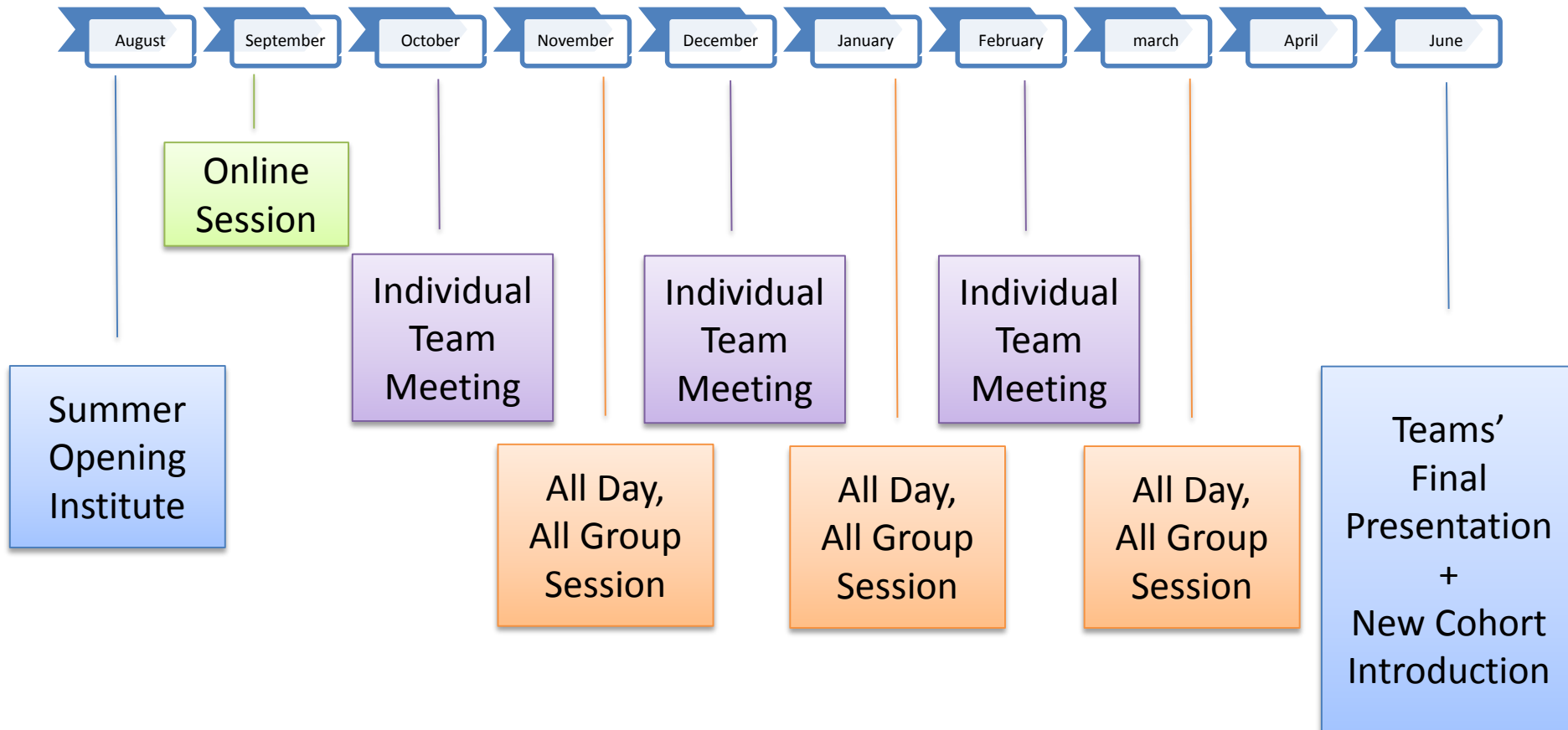
Program's goal:

To support district leaders as they develop a comprehensive, district-wide plan for STEM integration.

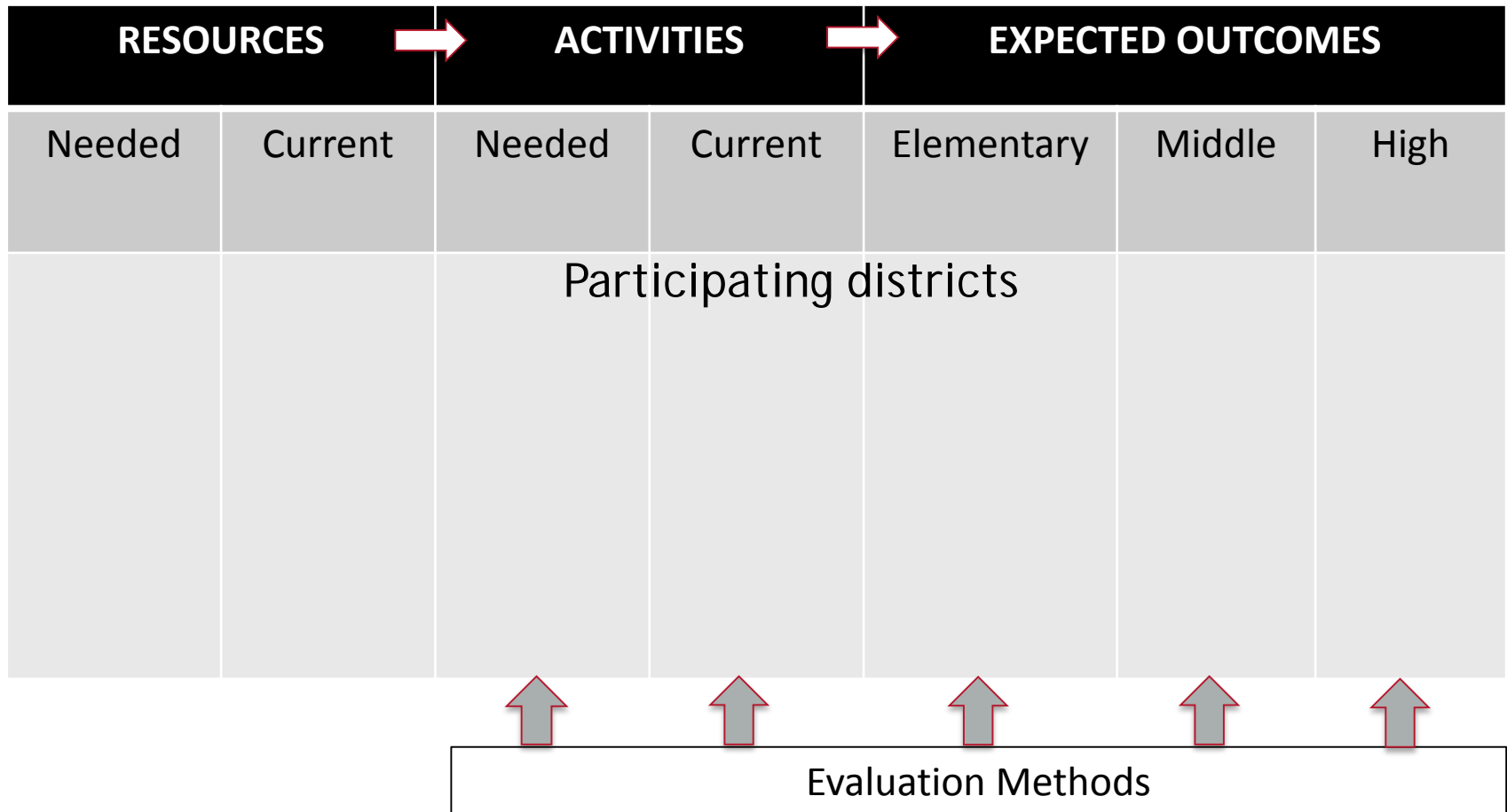
District leaders will:

- Review different models of STEM integration
- Set up STEM goals for their students
- List current programs that support the defined goals and identify needed activities
- Review integrated STEM curricula and technological tools
- Identify required resources to support the activities

The Program: Timeline



The Program: Logic Model



QUABOAG REGIONAL SCHOOL DISTRICT

Middle School Innovation Vision

- To ***inspire*** students to consider STEM careers and apply to the High School Bridges program.
- To ***engage*** students in STEM by providing hands-on, project based learning opportunities both in the ***classroom*** and ***after school***.
- To ***gain competencies in important skills*** that will be critical to success in high school/careers such as teamwork, problem solving, and communication skills.
- To ***provide access*** to and experience with ***cutting-edge technology***.

QUABOAG REGIONAL SCHOOL DISTRICT

Elementary School STEAM Vision

Students inspired through

Teamwork and

Engagement,

Applying knowledge and skills to

Make a difference



QUABOAG REGIONAL SCHOOL DISTRICT

EXPECTED OUTCOMES

Elementary	Middle -High
Enrolment (1) Retain students in elementary schools, ensure transition to Middle-High school (2) Recruit students to elementary schools	Enrollment (1) Retain (%) of students in QRSD (2) Recruit (#) students to QRSD through school choice (3) STEM programs/ECHS
Transition (1) Increase STEM literacy skills (2) Proficiency in 21 st century learning expectations (develop rubric)	Post-Graduation (1) Increase graduation rate by (%) (2) Increase college-bound students by (#) (3) Increase (#) of college STEM majors applicants (4) Proficiency in 21 st century learning expectations
Community Increase number of STEM community service learning projects to (#) per year	Community Increase number of STEM community service projects to (#) per year
Assessment (1) Increase MCAS scores by (%) (2) Decrease achievement gaps of low income students by (%) (3) Decrease achievement gaps of special education students by (%) (4) Increase math benchmark scores by (%)	Assessment (1) Increase MCAS scores by (%) (2) Decrease achievement gaps of low income students by (%) (3) Decrease achievement gaps of special education students by (%) (4) Increase qualifying scores on STEM AP courses by (%)