



ConnectEd

The California Center for College and Career

Transforming today's education
for tomorrow's economy



**Putting all the Pieces Together to improve
Student Achievement**

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www.ConnectEdCalifornia.org



Let me tell you a story...





Who is ConnectEd?

- Began 3 years ago by the James Irvine Foundation
- 16 Demonstration Schools
- Data collection
- Pre-service Teacher Preparation
- Curriculum Development
- Professional Development
- Coalition – Legislation AB 2648
- District Initiative



Organizing Principles

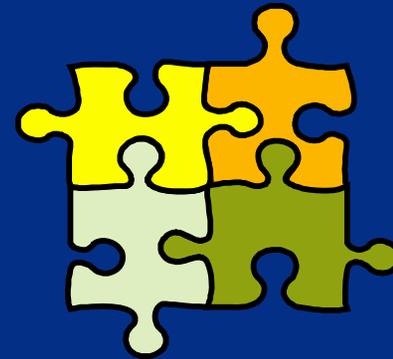
- Prepare students for both college and career
- Lead to the full range of postsecondary options
- Connect academics to real-world applications
- Improve student achievement





Pathway Components

- A Challenging Academic Component
- A Demanding Technical Component
- A Work-based Learning Component
- Support Services





An Academic Core

- An **academic core** meeting postsecondary admissions requirements of UC, CSU, and community colleges
 - ✓ 4 years of English
 - ✓ 3 years of math (4 recommended)
 - ✓ 3 years of social studies
 - ✓ 2 years of lab science (3 recommended)
 - ✓ 2 years of world language (3 recommended)
 - ✓ 1 year VAPA
 - ✓ 1 year college prep elective

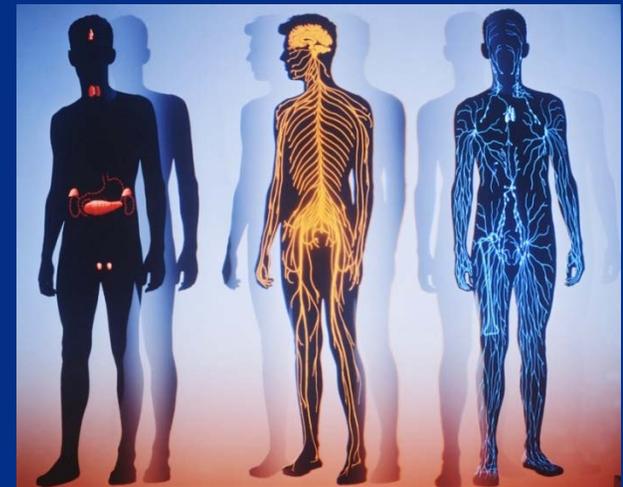


A Technical Core

- Shift from narrow occupationally specific preparation to Industry Sectors
- Meet CTE and industry standards, provide certification.
- Sequence of 3-4 courses.
- Infuse and reinforce academic content and standards

Examples:

- Engineering, robotics
- Health science, sports medicine
- Animation, graphic design
- Advanced manufacturing
- Agriculture and renewable resources





Industry Sectors and Organizing Themes



CALIFORNIA'S 15 MAJOR INDUSTRY SECTORS



Agriculture and Natural Resources



Arts, Media, and Entertainment



Building and Environmental Design



Education, Child Development, and Family Services



Energy and Utilities



Engineering



Fashion Design, Manufacturing, and Production



Finance and Business



Health Science and Medical Technology



Hospitality, Tourism, and Recreation



Information Technology



Manufacturing



Marketing, Sales, and Service



Public Services



Transportation



Math

Science

English

Social
Studies

Theme

Prepared
for
College
and
Careers



Work-based Learning

- Includes mentoring, job shadowing, internships, school-based enterprise, virtual apprenticeship.
- Reinforces both academic and CTE standards.
- Students develop meaningful relationships with adult role models.
- Immerses students in “adult world,” leading to maturity, understanding of professional behaviors, high expectations





Support Services

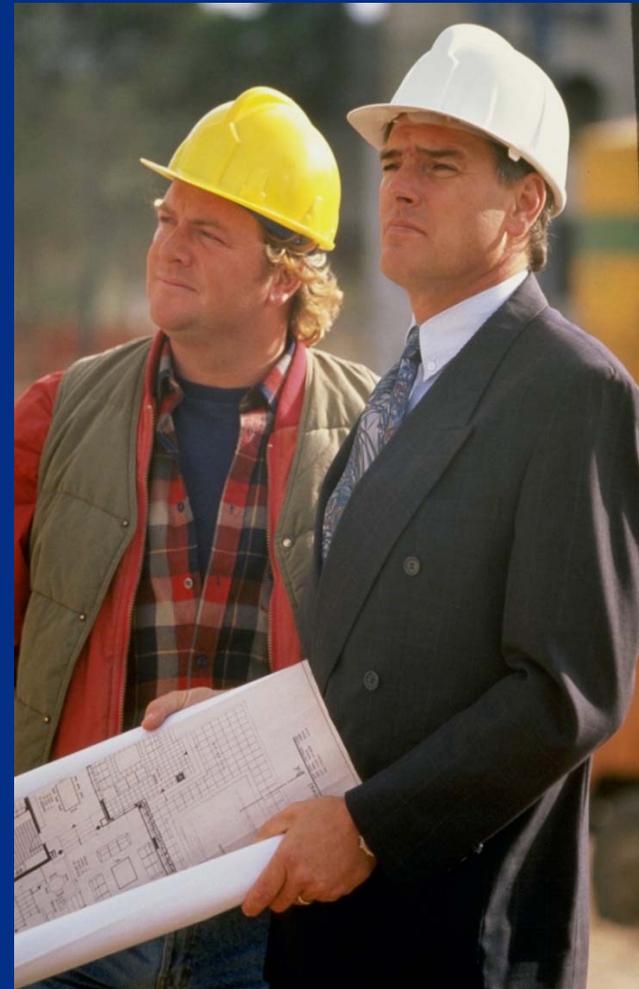
- **Supplemental instruction** for students below grade level:
 - Additional coursework – but, rather than more of the same, uses an integrated, applied learning approach
 - Extended day, extended year
 - Tutoring and other assistance
- College and career **guidance and counseling**





Pathways...

- Bring **real world relevance** to the college preparatory curriculum.
- Promote **project-based** teaching and learning.
- Use more **authentic assessment** methods.





Pathways....

- Tend to operate as **small learning communities**.
- Incorporate **ROP and community college** course-taking options, as appropriate and available.
- **Blend academic and career technical** course content
- Learning is **project-based, student-centered, rigorous and relevant**, and supported by a range of services.



Exercise

Instructions:

1. As a group, discuss for the next 4 minutes how you can illustrate on paper how the four components take shape in a pathway
2. Take 5 minutes and draw on the flip charts your pathway incorporating all four components
3. Prepare a one minute presentation to share your illustration with the others





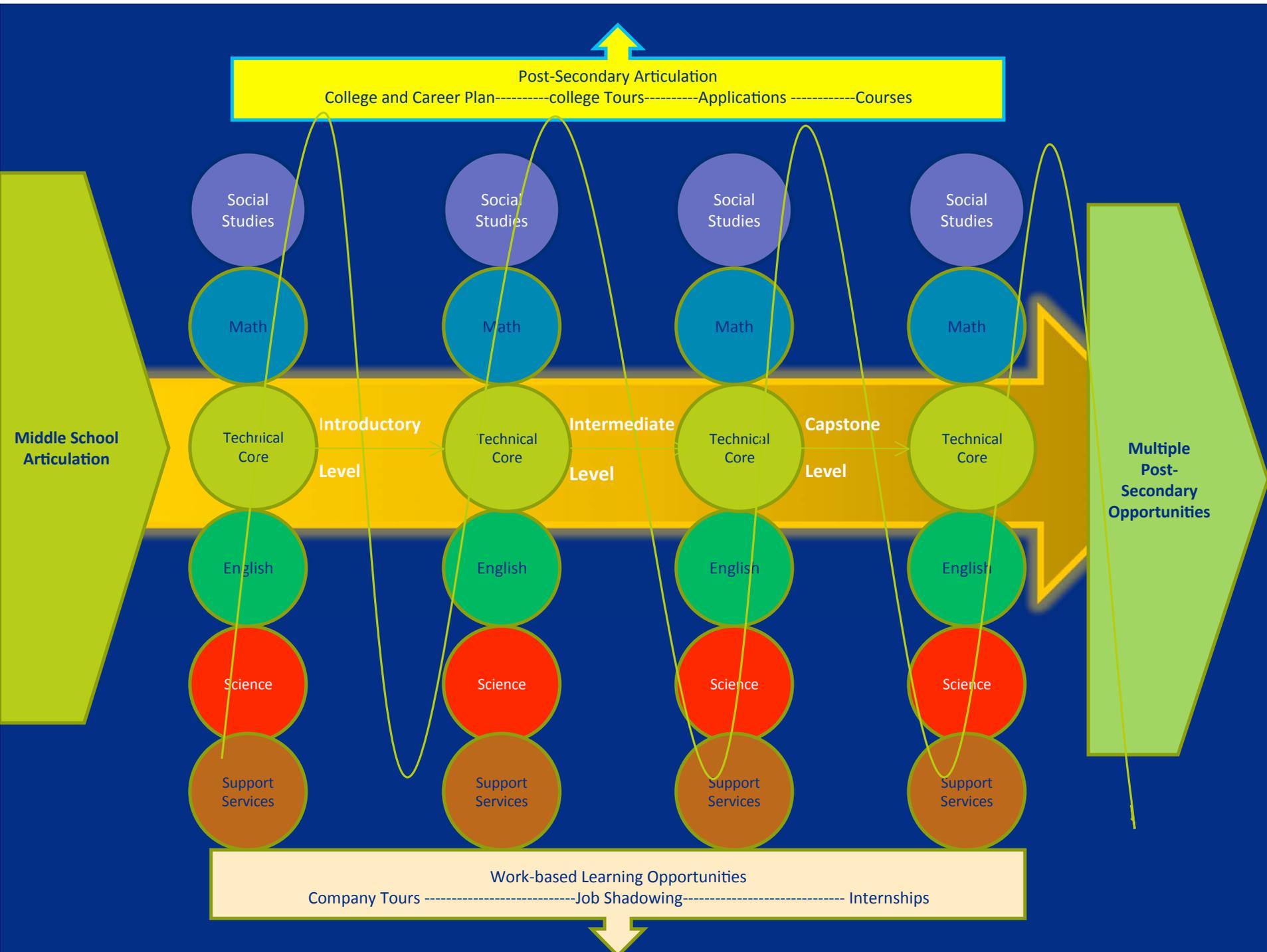
As you do your illustration consider the



following questions:

- What is the relationship between the four components?
- How does the pathway evolve over the four years?
- How can you incorporate the student recruitment in middle schools?
- How do you illustrate the outcomes you expect at the end of high school?







So what does yours look like?

Reflection:

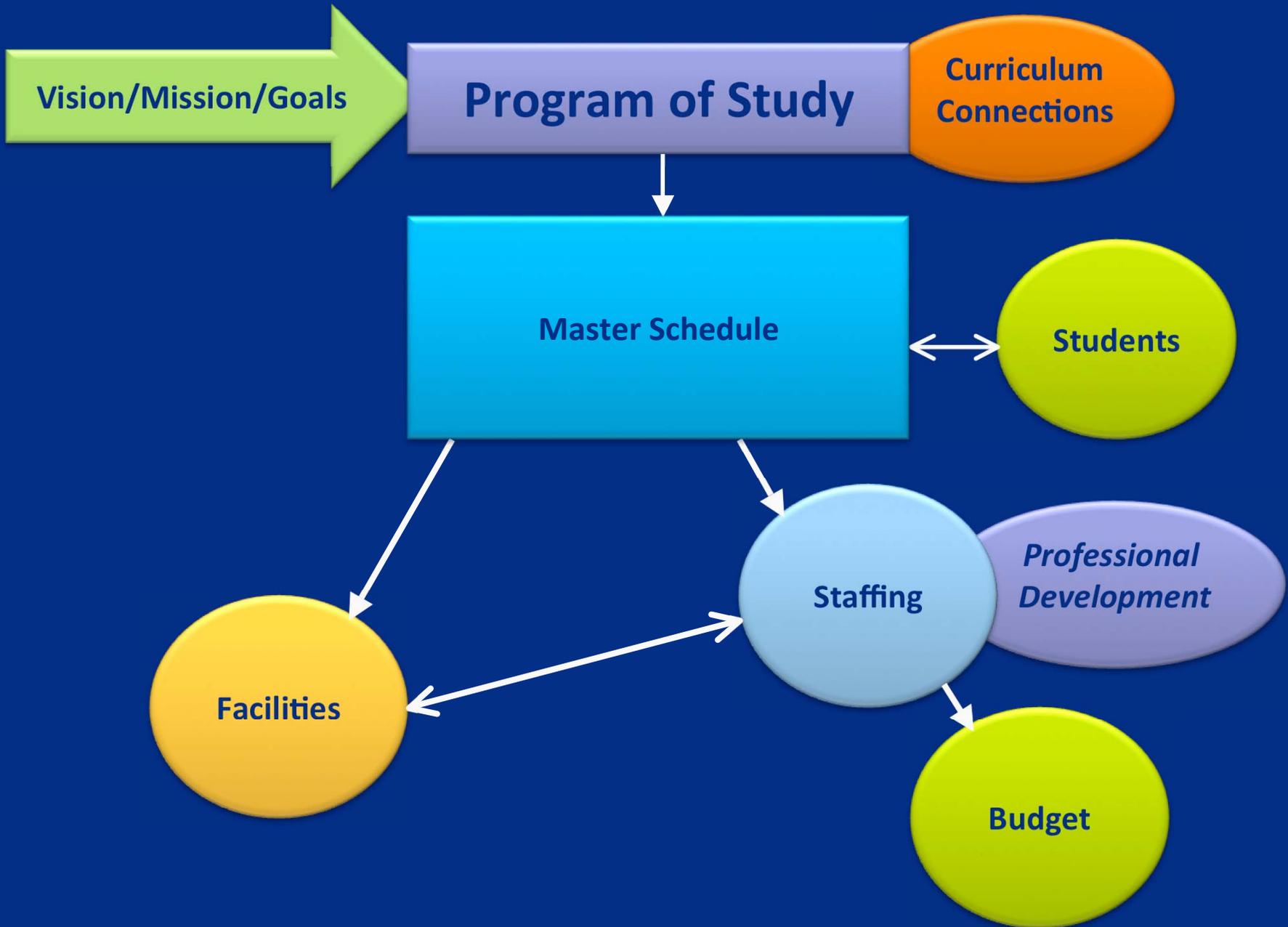
- Take out the Program of Study Worksheet and write in the academic and technical core components
- What are some examples of integration?
- What is the progression of Work-based Learning?
- What supports are necessary?

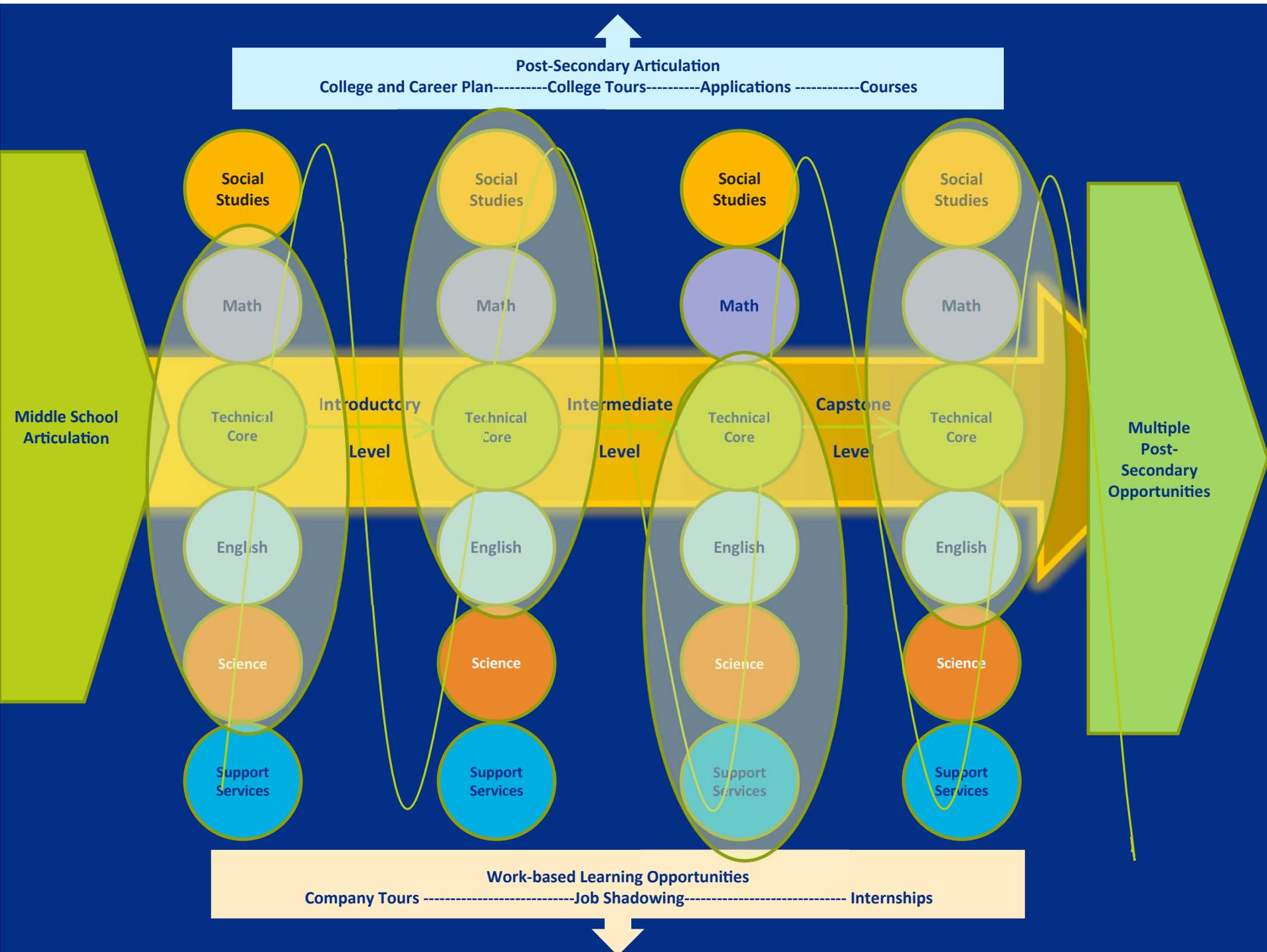




Specific Examples

<http://www.connectedcalifornia.org/pathways/pathways.php>





Post-Secondary Articulation
 College and Career Plan-----College Tours-----Applications -----Courses

Middle School Articulation

Social Studies

Math

Technical Core

English

Science

Support Services

Introductory Level

Social Studies

Math

Technical Core

English

Science

Support Services

Intermediate Level

Social Studies

Math

Technical Core

English

Science

Support Services

Capstone Level

Social Studies

Math

Technical Core

English

Science

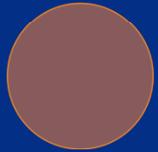
Support Services

Multiple Post-Secondary Opportunities

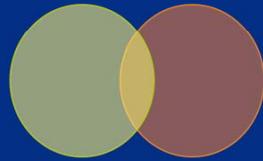
Work-based Learning Opportunities
 Company Tours -----Job Shadowing----- Internships



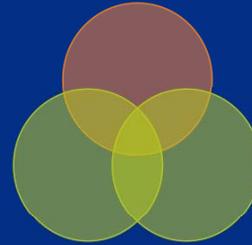
Continuum of Integration



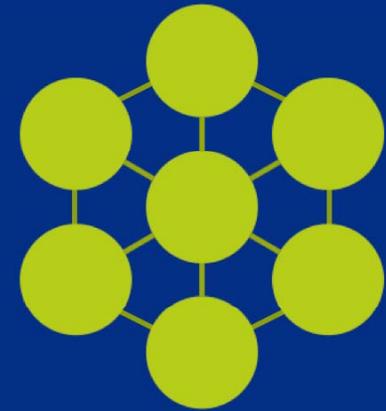
Single Subject



Parallel (Paired)



Interrelated

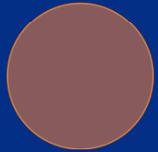


Conceptual

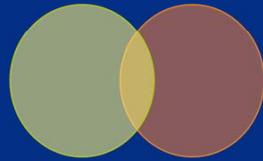




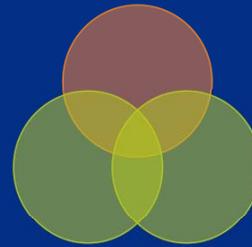
Conceptual Integration



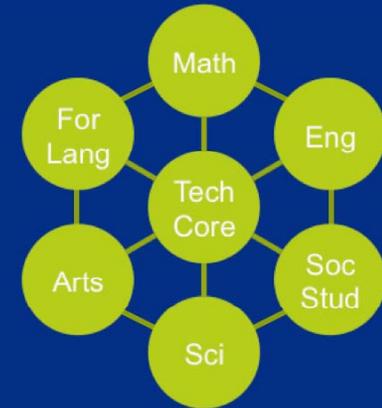
Single Subject



Parallel (Paired)



Interrelated



Conceptual

Teacher team uses a concept or problem to frame instruction and create curricular

coherence
ADVANCED

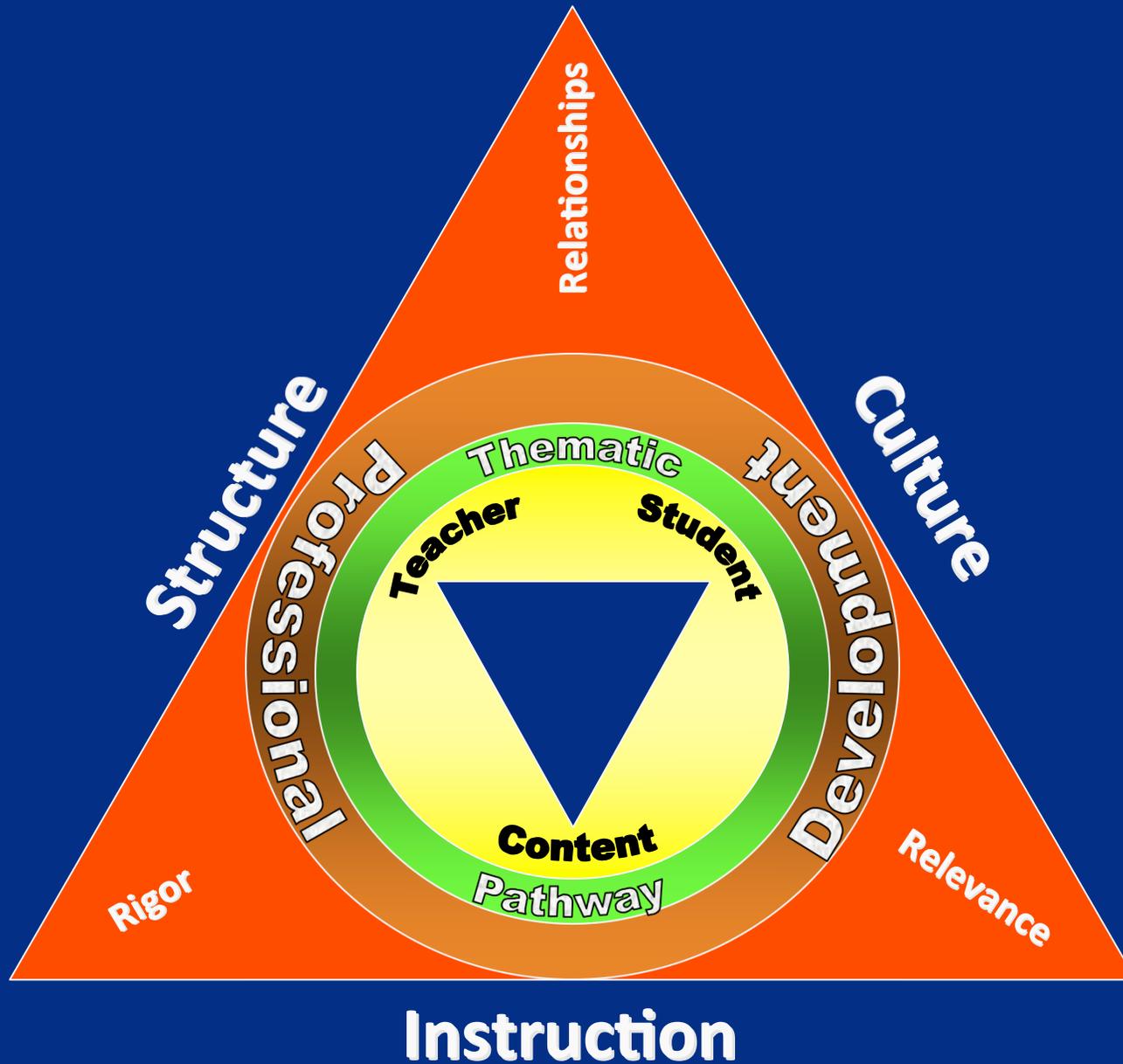




Why reforms fail?

- Lack of real commitment, buy-in, and a confluence of effort
- No outside force balancing the changes in leadership and their whims
- Lack of fidelity to the model, cutting corners
- Lack of a systemic approach
- Involvement of everyone in the design and development
- Change the structure and never change the instruction or culture

Theory Of Action





The Evidence

- Compared with their peers, students in pathways:
 - Attend at higher rates
 - Are less likely to drop out and more likely to complete high school
 - Pass the California High School Exit Exam at higher rates
 - Are more likely to score proficient or higher on California Standardized Tests in English, science, and social studies
 - Need considerable help in mathematics
 - Earn more annually in the five years after high school graduation
 - \$2,500 per year more!



What I didn't tell you was...

- High academic rigor
- Technical core was college level
- There was an internship connected
- The theme was integrated in all courses
- Multidisciplinary
- Exhibition of the work was primary
- Who was the student?





Additional Information

ConnectEd Website:

www.connectedcalifornia.org

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