The Surveys of Enacted Curriculum: Data and Process for Aligning to Common Core
Purposes, Utility and Access

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Denver, UDLN, 5/23/12

Key Questions in K-12 Education: 2012

1) What are the key differences between current instruction and Common Core Standards?

2) How can educators use data to identify where to focus the transition to CCSS? And track progress of implementation?
Alignment? Important?

How well Aligned is instruction now?
Fundamental Theorem of Learning
Curriculum / Instruction / Assessment / Learning

1. Students learn what is taught.
2. Knowledge builds upon previous knowledge and experiences.
3. Meaningful learning objectives have value.
4. Aligning instruction to intended standards increases the likelihood of students reaching learning objectives.
5. Assessment should inform instruction – hence learning.

What If—
Educators had cost-effective, efficiently reported data on classroom instruction?

Using SEC Online Data for CCSS
Monitoring of Local Implementation
SEC Alignment Map for CCSS

The SEC provides mapping of current instruction to Common Core –

Topics by Expectations (or cognitive demand)

Data collected online – Charts reported quickly and easily for three or more teachers per grade

Our Session Today–
Questions SEC tool and Data can address Model for ransition Support

1. **Big Question**: What is the alignment and major gaps between current instruction based on prior state standards and Common Core Standards?

2. **Then**—How will instructional content and strategies need to shift to meet CCSS? How can Educators target efforts?

3. **Why use SEC?** How is our understanding and use of Alignment and data with schools improved with SEC tools? **Predict, Analyze, Act:** How can data inform instructional decisions and change?
Surveys of Enacted Curriculum

The **intended** curriculum:
Content standards—What students should learn

The **enacted** curriculum:
What teachers teach

A content grid: Topic by Cognitive Demand

The **learned** curriculum:
Student outcomes based on school learning

The **assessed** curriculum:
State (and other) assessments—tested learning
SEC Fine Grain: Gr. 8 Basic Algebra

State A

CCSS

Absolute value
Use of variables
Evaluation of formulas, expressions, and equations
One-step equations
Coordinate Planes
Patterns
Multi-step equations
Inequalities
Linear and non-linear relations
Rate of change/slope/line
Operations on polynomials
Factoring
Square roots and radicals
Operations on radicals
Rational expressions
Multiple representations

Student Expectations
I. Memorize Facts, Definitions, Formulas
II. Perform Procedures
III. Demonstrate Understanding
IV. Conjecture, Analyze, Generalize, Prove
V. Solve Non-Routine Problems/Make Connections

CCSS in the SEC

English Language Arts

CCSS Gr. 1
CCSS Gr. 11_12
CCSS Gr. 2
CCSS Gr. 3
CCSS Gr. 3_5
CCSS Gr. 4
CCSS Gr. 5
CCSS Gr. 6
CCSS Gr. 6_8
CCSS Gr. 7
CCSS Gr. 8
CCSS Gr. 9_10
CCSS Gr. 9_12
CCSS Gr. K
CCSS Gr. K_2
CCSS Literacy Gr. 11_12
CCSS Literacy Gr. 6_8
CCSS Literacy Gr. 9_10

Mathematics

CCSS Gr. 1
CCSS Gr. 2
CCSS Gr. 3
CCSS Gr. 3_5
CCSS Gr. 4
CCSS Gr. 5
CCSS Gr. 6
CCSS Gr. 6_8
CCSS Gr. 7
CCSS Gr. 8
CCSS Gr. 9_12
CCSS Gr. K
CCSS Gr. K_2
How to view SEC data and view SEC resources

- [www.SEConline.org](http://www.SEConline.org) - Where teachers take the survey, view data and access resources to assist them in using the tool

- [www.SECsurvey.org](http://www.SECsurvey.org) - Where leaders can access resources, tools, and information about conferences and presentations about the SEC

Where to begin to look at SEC data

Data collection/reporting online. Teachers need Orientation time.
Are there topics we teach currently that are not in the new standards?

If the topics are no longer in my grade level where are they taught?
Looking at alignment and practice over time

Shifts that show increase in expectations for students

NC Bringing Math Instruction Into Focus

Teachers Gr 7  
CCSS Grade 7  
Spec Ed Teachers Gr 7

All Content Areas
Comparing CCSS to other grade levels (vertically)

Being aware of the big content picture in order to know the important role you play as a teacher at your grade level.

6th grade CCSS 7th grade CCSS 8th grade CCSS

Process of Using SEC Data

Let’s Try it Out
Instructional Practice- Achieving the standards

Should we be doing more or less of these practices?

What About our Readiness impacts Access?

What prevents teachers from teaching higher level content?
### Instructional Activities in Mathematics

**Ohio**

#### Year: 2011

Viewing: Reynoldsburg City Data
Data Cut: Percent GDP

#### Viewing: Ohio Data
Data Cut: Percent GDP

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- **How much of mathematics instructional time in the target class do students use to practice or reflect on the following issues?**

- **Watch the teacher demonstrate how to do a problem/solve a problem**

- **Read about mathematics in books, magazines, or articles (not textbooks)**

- **Collect, summarize, and/or analyze data from multiple courses**

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#### Work in pairs or small groups on mathematics problems, investigations, or tasks

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#### Do a mathematics activity with the class outside the classroom

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#### Use computers, calculators, or other technology to learn mathematics

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#### Maintain and reflect on a portfolio of their own work

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#### Practice inductive reasoning

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### Notes

- The graphs display the percentage of students who engaged in each activity, categorized by level of mathematics proficiency.
- The data is presented for Reynoldsburg City and Ohio, showing trends in instructional activities across different levels of mathematics proficiency.
This is the view that teachers find most helpful.

Applications of SEC Data and Analysis with CCSS and States

- Classroom instruction (practices, content) by State Standards
- Common Core by State Standards
- Classroom Instruction by Common Core
- Common Core by Assessments/Consortia
- Common Core by National professional standards
Using SEC to develop a Shared Vision for Teaching and Learning

Data to Focus Instruction

- The SEC is a meaningful way to inform instruction
- SEC Data are used as a tool to
  - Make instructional decisions
  - Have teachers work together to use data
  - Guide professional development plans
  - Focus instructional transition to CCSS
  - Inform instructional resource choices
- SEC data provides alignment of assessment to standards, assessments to instruction
Previous SEC Data Use

- The SEC online system includes:
  - CCSS
  - Prior state standards (4 subjects K-12)
  - Assessments – State, NAEP, SAT, ACT, TIMSS, PISA
  - Curriculum materials
  - Teacher surveys from targeted projects in many states
- **But**, Key is plan and process for applying the lessons learned from SEC data

Cost to Benefit Ratio

**What is Needed**
- Time: Introduce to Educators
- Teacher & Leader Buy-in
- Low $ for Data
- Support to start
- Data workshop

**Educator Benefits**
- Data
  - Accessible
  - Visual
  - Practical
- Process
  - Engaging
  - Reflective
  - Collegial
What do people say about SEC?

• “We used the science SEC and were for the first time able to see where our instructional emphasis is placed and open up the kind of dialogue that allows us to move towards a standards based approach to teaching…” (Georgia science teacher)

• Hyperlink to short video explaining SEC data and how data are used.

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Try out and View SEC Data

SEC online website—Review existing data reports, resources
http://seconline.wceruw.org/secWebHome.htm
To find out more....

• Ask Questions, Plan use of SEC & to Join the SEC Collaborative
  – CCSSO SEC Collaborative
    http://www.SCsurvey.org

  – Implementing Common Core – SEC community
    http://spaces.ccsso.org / you are invited

    contact: rolfb@ccsso.org