

## MS Math Adoption Committee Data Review

- 1) Record any general patterns in the data.

Sara Clarke, Eileen Wilcox, Jonathan Shearer comments: Digits is lacking scores. Big Ideas has many 4 for covering material- the highest overall scores.

Glencoe closely behind Big Ideas if looking at average scores

Our initial thought is to concentrate on Glencoe and Big Ideas and remove Digits from consideration.

Sara Clarke, Jonathan Shearer and Matthew Stokes comments: Core focus received lots of 3s and 4s. Scored above both Big Ideas & Glencoe in all categories except ELL, connecting math to other subject areas and integrating technology.

### Sue (ELL), Erin (Gifted) and Hope (6/7):

The trend/pattern we are seeing is that parents seem to like Big Ideas the best, followed by Glencoe and lastly Digits. The comments are similar. The trend in teacher feedback seems to be that in terms of content, Big Ideas is stronger, but Glencoe is a close second. When it comes to access, ELL, technology & assessment, Glencoe is equivalent to Big Ideas. Both parents and teachers are not interested in Digits. There are far too many concerns about application, content and accessibility.

**The overall pattern considering all three curricula is that CF is a clear front runner in almost all categories. The main strength of CF is that “it appears to have been written using CC instead of aligned to CC.” Parents and Teachers found CF to be the strongest in content delivery across grade levels, including gifted. Another overall pattern to note is that all parents recommended dropping Glencoe.**

Mary Boettcher, Abigail Horsfall and Faraz Doan

In the area of parent support, student support, multicultural and language support Glencoe tends to score higher than Digits and BI.

Connections between concepts and procedures, along with teacher support, BI is scoring higher than Glencoe and BI.

Glencoe & Big Ideas are getting 3's and 4's; Digits does not seem like a contender at this point.

Glencoe and BI scored lower in the category of providing material/opportunities for advanced students to go in greater depth. This is a concern given our student population – maybe none of these resources are doing what we want them to.

None of the materials seem to provide math content for struggling readers at an excellent level, but BI and Glencoe both scored around a 3 in this area.

For assessments, Glencoe and BI receive very similar scores on assessments.

In general, Glencoe received be slightly stronger scores in technology compared to BI (assuming Digits it not a contender based on weaknesses in other areas).

Re: Core Focus Even though it isn't as flashy as the others, the materials for parent support are very well thought out and easy to use. From a parent perspective, it was impressive the content of the material.

We noticed that Core Focus scored very highly compared to both Glencoe and Big Ideas in most of the categories. Core Focus was weaker in support for English language learners or representations of students from other cultures.

Some of the scores from Core Focus surprised us in how high they were compared to BI and Glencoe, given our perspectives.

The scores for remediation and advanced students were higher than BI and Glencoe - Core Focus does a nice job with this, along with encouragement to read, write and speak mathematically.

The scores for Core Focus were higher for assessment categories too, but still similar to Big Ideas (versus Glencoe which doesn't include as much variety for assessment). Core Focus received high scores for reviewing & Monitoring progress.

Re: Core Focus - parents seemed to support it overall.

## 2) Record any group interpretations of the data.

Sara Clarke, Eileen Wilcox, Jonathan Shearer comments:

**Sara Clarke, Jonathan Shearer and Matthew Stokes comments:**

For students below grade level- Big Ideas is slightly higher

ELL – Glencoe scores high. Also scores high for different home languages, culture and personal experiences.

#4 under assessment- Encourage students to monitor their own progress scores low for all curriculum. (2.7 and 2.6)

Glencoe outperforms: electronic resources being edited and monitored by teachers and opportunities to assess student mathematical understandings and knowledge of procedural skills using technology.

In reviewing "Overall Impressions of Content"

9 out of 9 are in favor of Big Ideas. Easy to read, well layed out, balance

8 out of 9 are in favor of Glencoe.

0 out of 7 are in favor of Digits.

12 out of 13 are in favor of Core Focus – concern about bulkiness and amount of reading

"Strengths and Weaknesses of hard copy materials"

5 out of 6 are in favor of Big Ideas. Don't like the workbooks, but easy to read, easy to find specific topics, good coverage of Common Core topics.

4 out of 6 are in favor of Glencoe- colorful, engaging. Downside- lacks rigor and attention to Common Core standards.

1 out of 6 responses is favorable for Digits.

7 out of 7 are in favor of Core Focus – Weakness: would like more creative/open-ended

Strengths & Weaknesses of online materials:

Big Ideas: 4 out of 5 are positive- online materials provide more problems, but only one place to find standards.

Glencoe- 4 out of 5 are positive comments- " So much better than the others", but lacks Common Core

Digits- 1 out of 5 positive

Core Focus – 2 out of 2 positive – hard to read TE

To what extent do the curriculum materials connect with CCSSM content?

Big Ideas: 4 out of 4 positive- connects well with CCSSM

Digits: 3 out of 4 positive-

Glencoe- 4 out of 6 positive- connection to CCSSM an after thought

Core Focus – 9/9 positive

To what extent do the curriculum materials encourage student's development of the mathematical practices?

Big Ideas- 4 out of 4 positive- best of the three books, some questions are higher level and require students to follow practices

Digits- 0 out of 4 positive- lacks project ideas and real-life connections.

Glencoe- 3 out of 4 positive

**Core Focus – 3/3 positive**

Parent emails:

Big Ideas- Delight to read the textbook, concepts in grade 7 are repeats of grade 6 but overall the parents like these explanations and step-by- step lessons.

**Parents want Big Ideas/Core Focus**

Glencoe- textbook good, but dry.

Digit feedback- Frustrated by online approach, confusing. Parents strongly against Digits.

**Sue (ELL), Erin (Gifted) and Hope (6/7):**

In terms of teacher feedback, we notice that there seems to be two groups emerging: Big Ideas and Glencoe. Parents seem to prefer Big Ideas, however. We believe that teachers and parents are looking at these curricula through the lens of their own personal experience (ie: will this work for MY child, can I see this working in MY classroom...). It is crucial that as we move forward, we not only consider the Common Core Standards and the Standards for Mathematical Practice, but we think of ALL students.

**It is clear that both teachers and parents believe that the two strongest curricula and most appropriate to pilot are BI and CF.**

Mary Boettcher, Abigail Horsfall and Faraz Doan

(We are assuming Digits is a no-go.)

Overall: a mixed feeling between Big Ideas and Glencoe; there is a consistency that we should pilot both of these options. Digits does not seem to be an option for us. Teachers are giving more “Hurrah”s for Big Ideas, but also felt that Glencoe should be piloted.

Mixed feedback between BI and Glencoe both being easy to use, acceptable, etc but both also have some comments that it is “unacceptable”. Digits was found to be unacceptable. In terms of online material, Glencoe and BI were seen to both be worth piloting. “Easy to follow, variety in languages.”

There are concerns for both Glencoe and BI about preparation for Smarter Balanced exams and integration of the Mathematical Practices. Glencoe present problems that could have been opportunities to embed the Practices but they lack the deep, rich questions needed to do this. Teachers

would have to modify/supplement both Glencoe and BI to ensure students are really developing the Practices and prepare for the Smarter Balanced tests. We will still need to rely on teacher training, awareness, modification to be successful with either textbook.

Kerry, Kristin, Jessica, Merrill

\*Big Ideas abbreviated BI, Digits abbreviated D & Glencoe abbreviated G\*

Overall, Big Ideas has highest average scores in the content questions, with Glencoe closely following and digits behind.

In the equity question #4, all scores were lower. Glencoe's average is above the other two in equity.

Overall, Glencoe & Big Ideas seemed to outperform digits.

Assessment scores basically equivalent between BI & G.

Most of BI & G scores in the 3 range (acceptable) whereas D consistently scored in the 1's & 2's and occasionally going into the 3's.

G got more 4's than BI for equity question 9 even though the average was lower.

In reviewer's comments, disagreement between determining if G connects with CCSSM content standards and practice standards.

In reviewer's comments, most agreed that BI had some connections that could be found with some digging, whereas D was not apparent and G has discrepancy between some who felt it was the best, and some who felt there were none.

In G, the text is structured with skills and examples, with some labs after. For their format, BI has activities then examples.

E-mail Responses:

Parent concerned about grade 6 & 7 repeats – not an issue since that is a part of accelerating both and they would not be repeated.

Overall parents like BI better than G or D, like the section of 'what you learned before' over 'what you will learn' in comparing BI and G.

No parents preferred D.

Detailed parent e-mails listed pros and cons, giving #1 preference to BI across the board, followed by G, and last (and not preferred at all) D.

Publisher responses –

BI and G submitted responses to survey, while D did not.

ELL support in G higher than in BI (14 vs 1) potentially just with glossary

Both BI & G have full read-aloud in English to support readers

Publishers didn't really answer questions, just provided an overall blurb (Glencoe)

BI provided the page numbers that information could be found on in the texts along with specific information and some page numbers given for examples.

Kerry, Kristin, Jessica, Merrill *Core Focus Additions*

*Core Focus* typically scores an average that is comparable or higher than either *Big Ideas* or *Glencoe* with the exception of support for ELLs and relevance to a variety of cultures

*Core Focus* same as *Big Ideas* for technology, but online practice and assessments coming in 2014 per publisher response

Comments: seems to be more rigor in *Core Focus*, overall very strong alignment to CCSSM, only potential downside seems to be "not flashy", some pages appear too wordy

Publisher response: overall seems to score very high, weakest area was in technology with comments about online practice and assessments for 2014

Parent/Community Emails: Opinion from all is that *Glencoe* should be eliminated from consideration for the pilot and that *Core Focus* and *Big Ideas* should be piloted, with *Core Focus* being the favorite