

KPBSD Mathematics Curriculum Revision

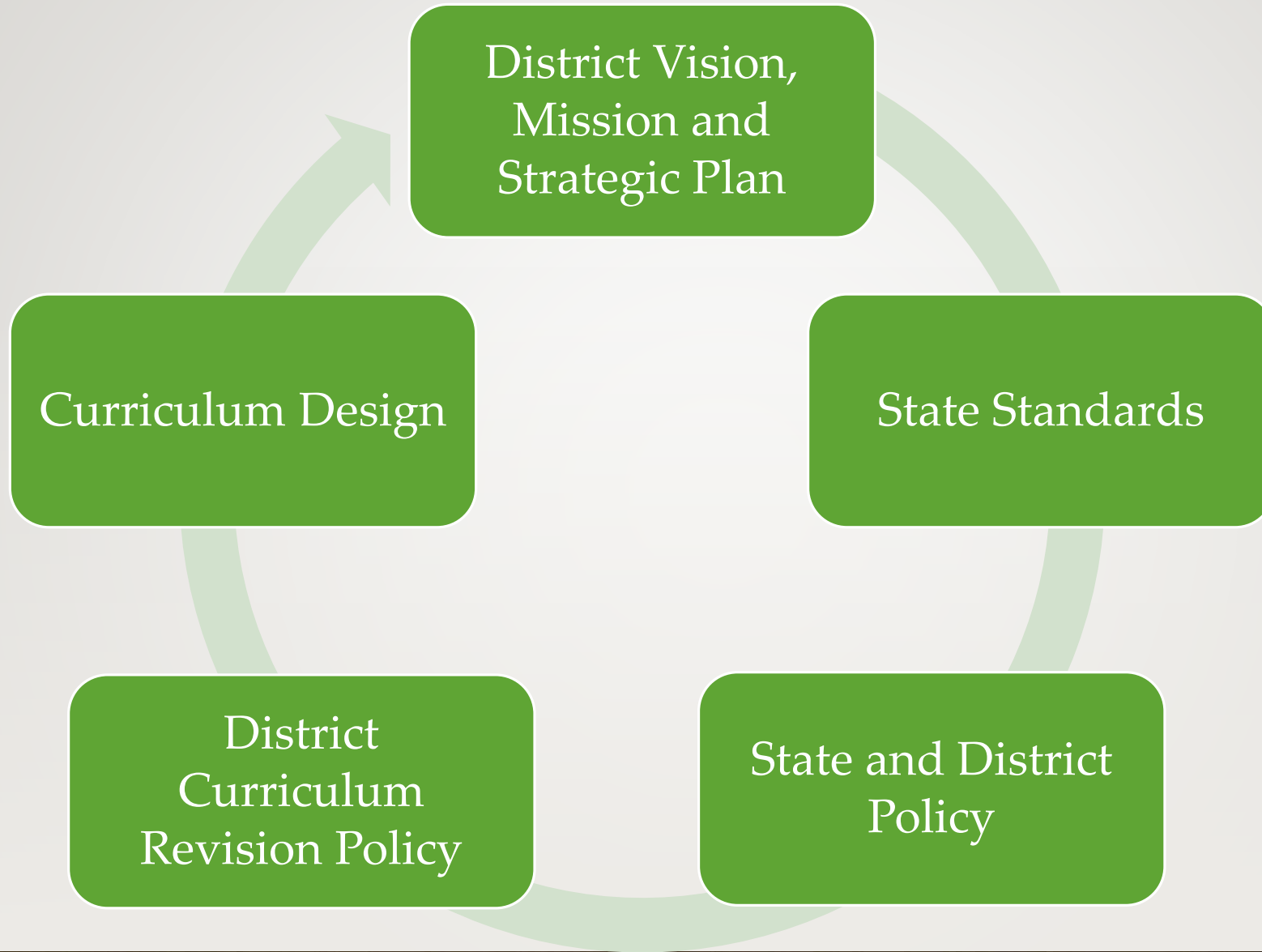
The mission of the Kenai Peninsula Borough School District is to empower all learners to positively shape their futures.





Curriculum Planning

"To begin with the end in mind means to start with a clear understanding of your destination. It means to know where you're going so that you better understand where you are now so that the steps you take are always in the right direction." (Covey, 1994)



Phase 1

- Application Process
- Preliminary Committee Meeting

Phase 2

- Committee begins curriculum revision process
- Committee shares draft curriculum and elicits feedback from teachers and BOE
- Committee begins material review process
- Committee presents draft to the BOE in a work session

Phase 3

- Curriculum approved by BOE

Phase 4

- Professional Development

Spring 2018

Fall 2018

Winter 2018-2019

Spring 2019

2019-2020 School Year

Understanding by Design (UbD)

- It's a way of thinking purposefully about curricular plan. It's not a program.
- Developed by Grant Wiggins and Jay McTighe.
- End goal: Be able to connect, make sense of, and use discrete knowledge and skills in context.
- Planning is best done backward from the desired results.

Ideal Curriculum Document

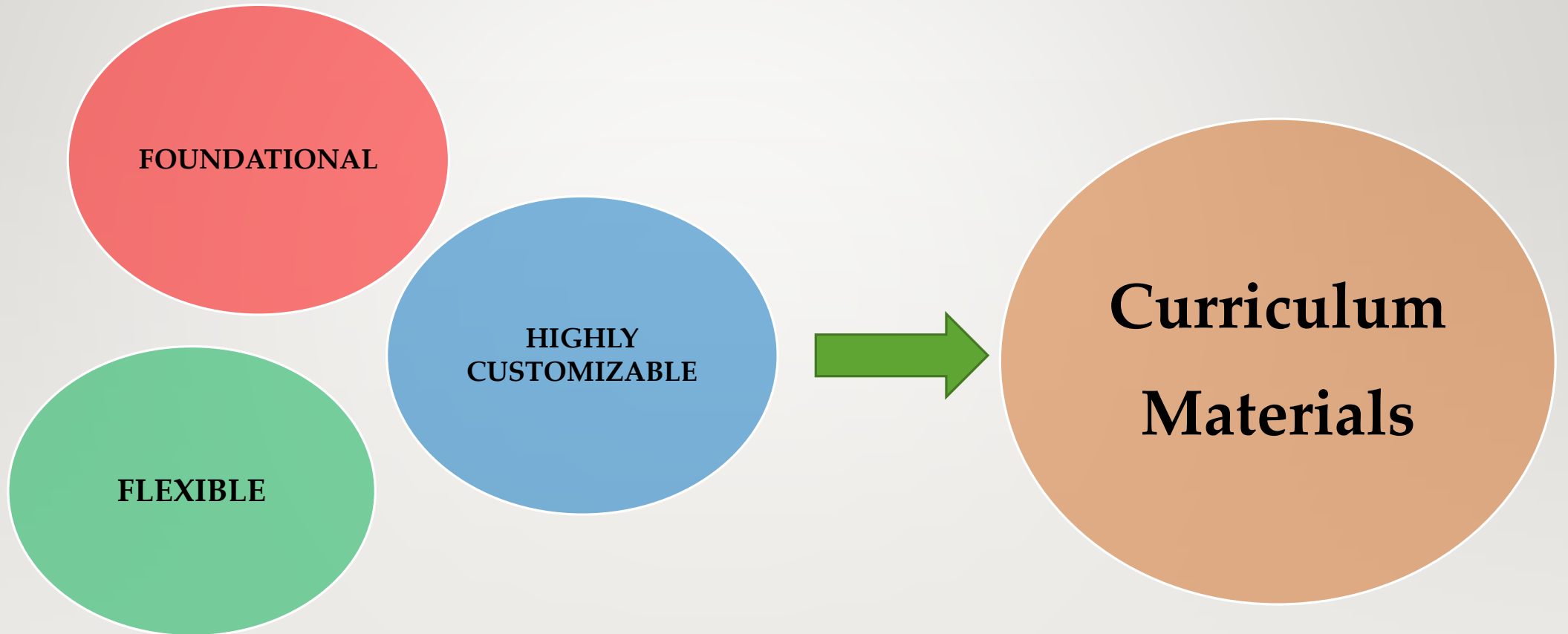
- Standards
- Outcomes/Skills/Essential Questions
- Common Assessments — Benchmark, Summative; Formative
- Vocabulary
- Instructional Resources
- Scope and Sequence
- Units of Study
- Recommended Instructional Strategies/Practices
- Pacing Recommendations

UbD: The Backward Design Model

The backward design model is comprised of the following three stages:

1. Identify desired results
 - What do students need to know and be able to do?
2. Determine acceptable evidence
 - How are students going to be able to demonstrate that they know and can do it?
3. Plan learning experiences and instruction
 - How are students going to learn and what do they need to be able to do?

Types of Curriculum Materials

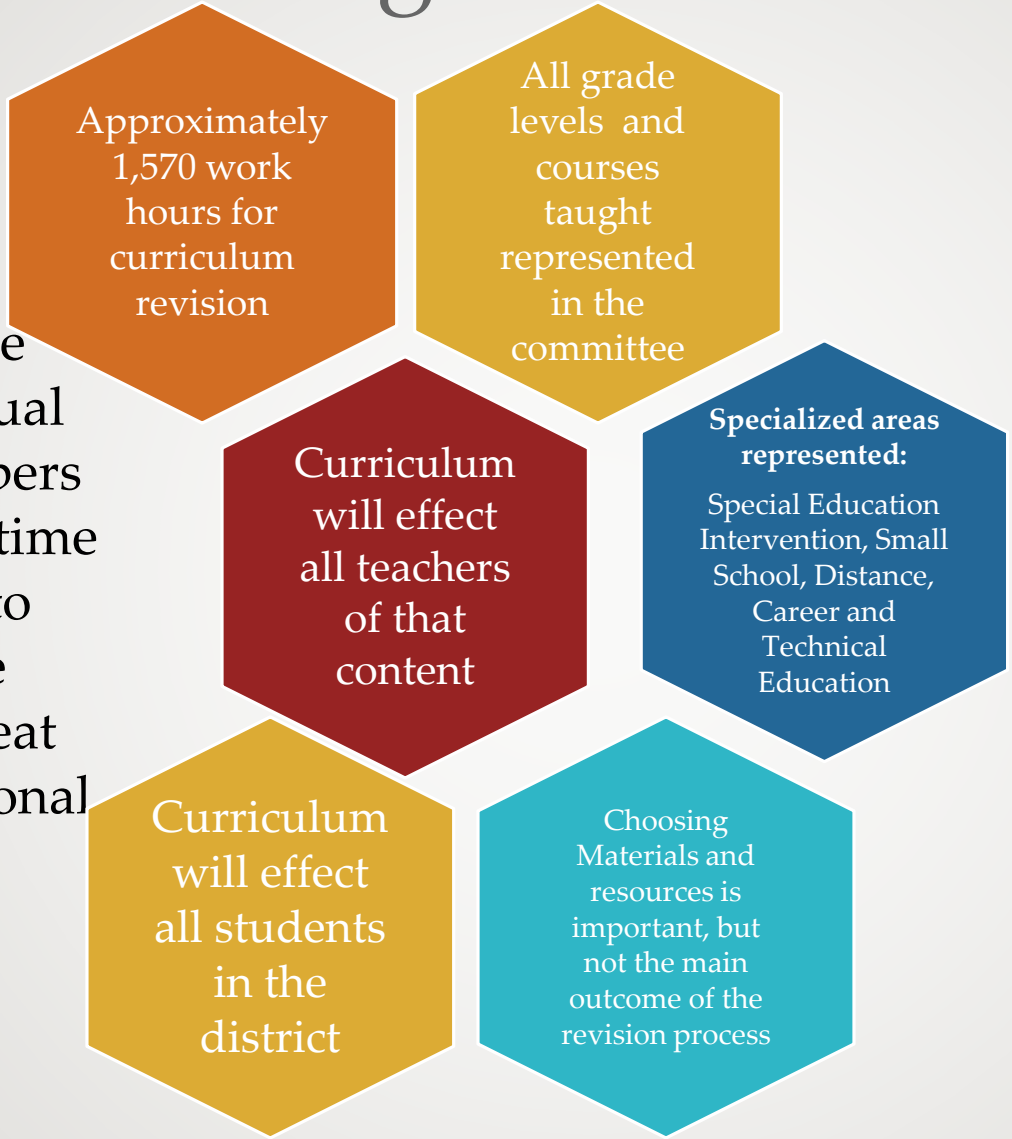


Mathematics Curriculum Committee

Name	Location	Role
Abbigail Moffet	Kenai Central High School	Student
Adrienne Bostic	Nikiski North Star El.	Teacher
Alan Haskins	Seward El.	Principal
Alana Greer	K-Selo	Teacher
Alison Mall	Homer High School	Assistant Principal
Angela Brown	Soldotna Prep	Teacher
Breta Brown	Soldotna Prep	Teacher
Cynthia McKibben	District Office	District Instructional Coach
Darcy Marcou	K-Beach El.	Teacher
Dawn Edwards-Smith	River City Academy	Administrator
Deanne Pearson	River City Academy	Teacher
Debbie Cary	KPBSD School Board	School Board Member
Eric Waltenbaugh	West Homer El.	Principal
Gabe Evins	Distance Education	Distance Education Teacher
George Skraba Reising	Seward High School	Teacher
Katharine Bynagle	West Homer El.	Teacher
Kathleen Herring	Kenai Central High School	Teacher
Krista Arthur	Redoubt El.	Teacher
Kristie Cotroneo	Nikiski North Star El.	Teacher
Krystal Duval	Sterling El.	Teacher
Lindsey Blaine	Nikolaevsk School	Teacher
Lisa Rolph	Kenai Middle School	Teacher
Melissa Linton	District Office	District Office Administrator
Michelle Thomason	District Office	District Instructional Coach
Nicole Stein	Nikiski North Star El.	Teacher
Rand Seaton	Homer Middle School	Teacher
Rebecca Walker	Mountain View El.	Teacher
Renee Merkes	Soldotna High School	Teacher
Shonia Werner	Tustumena El.	Teacher
Stephanie Burns	Soldotna High School	Special Education Teacher
Tristan Leiter	Skyview Middle School	Teacher
Wendy Potton	Skyview Middle School	Teacher

Some additional thoughts...

Curriculum work is time intensive and an intellectual process. Committee members have commented that this time is extremely important to accomplish tasks of the committee, but is also great collaboration and professional development time.



We strive to maximize teacher voice in this process. It is imperative that we have a diverse committee membership with passion and expertise in the subject areas.

Next Steps and Timeline

- School Board Approval of the revised Mathematic Curriculum in February 2019.
- Math Committee meets to continue identifying assessments, create modules in Canvas, and selecting material/resources.
- Professional development plan created (Spring 2019) and implemented 2019-2020 school year.