A wonderfully illuminating fable exists about seven blind men who encountered an elephant. Because each man felt a different part of the beast, none was able to figure out the true nature of the gigantic creature.

Did you ever stop to think that students’ perceptions about their learning experiences might be as limited as the perceptions the blind men had about the nature of the elephant? Perhaps, like the blind men, students learn only bits and pieces of the curriculum over time, never seeing, let alone understanding, the larger whole that is mankind’s accumulated knowledge.

What if we were able to design curriculum in a multi-faceted way to ensure that all learners understand: (1) the nature of knowledge, (2) the connections that link mankind’s knowledge, (3) the methodology of the practitioner who creates knowledge, and (4) the “fit” between the learner’s values and goals and those that characterize practicing professionals? How would classrooms be different if the focus of curriculum was qualitatively differentiated curriculum that prompts learners not only to accumulate information, but also to experience the power of knowledge and their potential role within it?

NAGC recently released a model for curriculum design with such intent. Called The Parallel Curriculum Model, the model suggests that all learners should have the opportunity to experience the elephant and benefit “from seeing the whole.” Moreover, as students become more expert in their understanding of all the facets of knowledge, the curriculum should support students’ developing expertise through “ascending levels of intellectual demand.” This brief article will provide readers with an overview of the Parallel Curriculum Model and an opportunity to see how the sum of its component parts can be used to create qualitatively differentiated curriculum for all students, including those with high abilities.

The Parallel Curriculum: A Unique Curriculum Model

What is a curriculum model? Why are there so many models to choose from? A curriculum model is a format for curriculum design developed to meet unique needs, contexts, goals, and purposes. To address specific goals and purposes, curriculum developers design or reconfigure one or more curriculum components (See Figure 1). The Parallel Curriculum Model is unique because it is a set of four interrelated, yet parallel, designs for organizing curriculum: Core, Connections, Practice, and Identity.

The Four Curriculum Parallels

Let’s look at these parallel designs through the eyes of Lydia Janis, a Grade 5 teacher, who develops expertise in using the four parallels over several years. We will focus on one curriculum unit, Lydia’s Civil War unit, in order to illuminate how it changes, or transforms, to accommodate the goals and purposes of each parallel. For the sake of our discussion, we treat each parallel as a separate unit. In reality, teachers use the parallels fluidly to address students’ talent development needs. At the end of this brief article, we will speak directly to when and how these parallels are used. Readers wishing a more detailed analysis of Lydia’s work are referred to chapters four through seven in The Parallel Curriculum Model.

### The 10 Key Curriculum Components

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<thead>
<tr>
<th>Curriculum Component</th>
<th>Definition</th>
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<tbody>
<tr>
<td>CONTENT</td>
<td>The knowledge, essential understandings, and skills students are to acquire</td>
</tr>
<tr>
<td>ASSESSMENT</td>
<td>Tools used to determine the extent to which students have acquired the content</td>
</tr>
<tr>
<td>INTRODUCTION</td>
<td>A precursor or forward to a lesson or unit</td>
</tr>
<tr>
<td>TEACHING STRATEGIES</td>
<td>Methods teachers use to introduce, explain, model, guide, or assess learning</td>
</tr>
<tr>
<td>LEARNING ACTIVITIES</td>
<td>Cognitive experiences that help students acquire, rehearse, store, transfer, and apply new knowledge and skills</td>
</tr>
<tr>
<td>GROUPING FORMATS</td>
<td>The arrangement of students</td>
</tr>
<tr>
<td>PRODUCTS</td>
<td>Performances or work samples that constitute evidence of student learning</td>
</tr>
<tr>
<td>RESOURCES</td>
<td>Materials that support learning and teaching</td>
</tr>
<tr>
<td>EXTENSION ACTIVITIES</td>
<td>Enrichment experiences that emerge from representative topics and students’ interests</td>
</tr>
<tr>
<td>ASCENDING LEVELS OF INTELLECTUAL DEMAND</td>
<td>Curriculum modifications that attend to students’ need for escalating levels of knowledge, skills, and understanding</td>
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Teaching for high potential

The Core Curriculum

Lydia Janis sat at her kitchen table and looked over her textbook objectives for the Civil War unit as well as her state frameworks. She was troubled. She realized that the textbook objectives were low level; they simply called for students to identify and describe facts, such as “Describe how the Civil War began,” and “Identify the differences between the North and South.” Her frameworks, on the other hand, required different kinds of knowledge and understandings: “Explain reasons for conflicts and the ways conflicts have been resolved in history,” and “Understand causal factors and appreciate change over time.”

Lydia realized that the content embedded in her frameworks—concepts and principles—lay at the heart of history as a discipline. These key understandings were vastly more powerful, enduring, and essential to the discipline than the facts in the textbook objectives. She decided to keep her textbook and use it as a resource, however. After all, the information was right there on her shelf, she was familiar with the content, and the topics covered were fairly well aligned with her state frameworks. But Lydia decided to replace the more simplistic objectives found in the text with the objectives found in the state frameworks.

Lydia realized that the change in content would necessitate changes in other curriculum components. Her assessments would need to match the content. Her assessment tools would need to measure—both pre and post—students’ conceptual understanding in addition to basic facts about the time period. Her introduction would need to be retooled to prepare students for the various roles they would assume during the unit as analyzers of documents, data, maps, and events, and to lead them to the powerful understandings she had targeted.

Lydia’s teaching strategies would no longer be strictly didactic, such as lecture and direct instruction, but more inductive to support students as they constructed meaning. Her learning activities invited students to think about and draw conclusions about maps, documents, and related data. She supplemented the textbook with other resources, such as primary source documents, college textbooks, and the video series, The Civil War. She imagined that she would have students who wanted to pursue extension activities. She gathered a few books about the Underground Railroad, Abraham Lincoln, and strategic battles. Finally, because she knew already that her students were at different stages in their ability to understand materials and content, she gathered print materials that varied in complexity from song lyrics and easy-to-decipher documents to several “dense” primary source documents so that all students could work at ascending levels of intellectual demand.

Lydia also altered the products that students created. In a variety of grouping arrangements, they completed document analysis worksheets, ongoing concept maps, and timelines to chronicle their deepening understandings about conflict and the causal relationships of events that led up to the Civil War. Because she knew already that her students were at different stages in their ability to understand materials and content, she gathered print materials that varied in complexity so that all students could work at ascending levels of intellectual demand.

Lydia reflected on her work. She had made significant changes to her teaching and student learning, and she was confident in her improvements. She felt the power of the Core Curriculum as a foundational curriculum.

The Curriculum of Connections

Later in Lydia’s career, she became aware of initiatives for interdisciplinary teaching. She was puzzled by some of the units that were labeled “interdisciplinary.” A unit on Mexico, completed recently by 4th graders, came to mind. Students learned and performed the Mexican Hat dance, held a fiesta during which they broke a piñata and ate tacos, viewed a display of Mexican money, and drew maps of the migration route of monarch butterflies. “Yikes,” she thought to herself, “this unit is an illusion. It looks integrated, but it lacks a powerful theme to tie the activities together!”

Lydia sat looking at the Core Curriculum unit on the Civil War that she had created a few years ago. She thought about the concept that earlier had focused her work, conflict. It reminded her that history repeats itself across people, time periods, and cultures: the Vietnam War, women’s suffrage, the Civil Rights movement, and the civil war in Bosnia. This principle, “history repeats itself,” held so much power. She realized that she could use the macro-concept, conflict, and the generalization, “history repeats itself,” as the content centerpiece to help students build authentic and powerful “bridges” between their understanding of the American Civil War and other times, events, cultures, and people.

Lydia made preliminary plans for her Curriculum of Connections unit. She prepared some assessment prompts, with accompanying rubrics, to assess students’ understanding of conflict and the idea that “history repeats itself.” She developed a preassessment and essential questions for the introduction to clarify the focus for this unit: “What is a war? Do all conflicts have a resolution? Does history repeat itself?” She knew that her teaching strategies would need to help students make their own “bridges” for the connections among the American Civil War and other events and time periods. She decided to emphasize synectics, metaphorical thinking, Socratic questioning, problem-based learning, and debriefing. Her learning activities emphasized analytic thinking skills to
help students in the comparisons and contrasts they needed to make and to encourage analogy making. Her supplemental resources were more varied and covered more events, cultures, and time periods than the resources she had used in her old Core unit, and the materials that she developed to scaffold student thinking included many more graphic organizers, such as Venn diagrams and reader response questions. She was pleased when she realized that the products, grouping strategies, and extension activities would remain similar to those she had used in the Core Curriculum.

For students needing support with this unit, she developed more detailed graphic organizers; for those needing increasing levels of ascending intellectual demand, she thought of several unfamiliar contexts to which students could apply their new learning, such as the Irish conflict and additional revolutionaries like Nelson Mandela and Elizabeth Cady Stanton. She tucked away these ideas for later use.

Lydia reflected on the modifications she had made. “This unit will benefit all my students, especially my abstract thinkers, students who value the ‘big picture,’ and my scholars,” she thought. “It holds so much promise… much different than the Mexican Hat Dance unit,” she mused.

The Curriculum of Practice

That summer, Lydia realized she could polish the same unit even more. Even though she had seen her students engaged and learning deeply about the Civil War, she began thinking more about how talent develops, specifically how students become acquainted with and skillful in the use of methodologies. “Now that students have the important ideas within and across disciplines, they need to learn how to act like a practitioner,” she thought to herself.

So began Lydia’s journey through the Curriculum of Practice. She sought out her state and national frameworks to identify the standards related to the role of the historian. To address them, she decided to invite students to read historical novels set during the mid 1800s and record the characters’ feelings, images, perspectives, as well as note how they changed throughout the story. Second, she would deepen students’ understandings of these historical perspectives by asking them to read related primary source documents and find evidence to support the characters’ feelings and attitudes.

In order for students to complete these tasks, she decided to focus her teaching on the skills of the historian: the steps of historical research, taking notes, determining bias, and analyzing point of view, to name a few. She decided to demonstrate or model these skills for students and then use more indirect teaching methods, such as Socratic questioning, to help students construct their own analyses of primary source material. To help students focus on the methodology of the field, she decided to invite a local museum curator to take part in the introduction of the unit.

Lydia subsequently decided to scaffold students’ work with a learning contract. The learning contract required learning activities and also asked students to complete several short-term products as well as a culminating project, their historical research. Lydia provided them with a rubric to guide and assess their final work. Lydia knew her grouping formats needed to be fluid to honor students’ interests and acknowledge that there were times when students needed to work alone or in pairs. This fluidity would be especially important if students elected to complete extension activities around self-selected research questions.

To accommodate students with sophisticated knowledge about the historical research process, Lydia prepared a list of more complex research topics that required ascending levels of intellectual demand, such as inviting advancing students to conduct oral histories on a topic of their choice.

Lydia reviewed the lessons that now reflected the Curriculum of Practice. “Wow,” she thought. “So far, I have three ways to optimize learning.” Lydia compared and contrasted the three sets of revisions to the Civil War unit: Core, Connections, and Practice. “Each approach is unique and powerful,” she thought. And she understood why teaching artful curriculum was a satisfying, career-long journey. “What will I discover next?” she wondered.

The Curriculum of Identity

It was a student who set Lydia on her next journey through the PCM. His name was Jacob, and she was amazed at his knowledge of American history. She envisioned this boy as a history professor, immersed in his own research about historical topics and mentoring others as they investigated questions not yet answered.

She spent time thinking about how she could “morph” her curriculum once more. The content for any Identity unit has a triple focus: her already rich Core curriculum; the ideas, attitudes, beliefs, dispositions, and life outlooks of a professional; and the learning profile of each student, including his or her interests, learning style preferences, values, and goals. Her task, she thought, would be to increase students’ awareness about the degree of “fit” between their own emerging sense of self and the profile of practitioners in the field.

Lydia developed a survey of her students’ abilities, interests, grouping preferences, goals, and co-curricular activities. Next, she sketched out the stages that students might go through as they went from an early awareness of and interest in history to self-actualization through the discipline. “This tool will help me identify where each student currently is on this continuum so I can support his or her progress,” she thought.

Now familiar with the many teaching
strategies available, Lydia selected visualization as an important method because students would have to move back and forth between their past self, current self, and future self. She also knew that she would use problem-based learning, simulations, and coaching to help students come to understand their place in the Civil War unit as they acted as historians, authors of historical fiction, or war correspondents.

She envisioned her students in varied grouping formats as they spent time with learning activities that required self-analysis and reflection, prediction, and goal setting, among others. Ideas for products came easily to Lydia: completed learning profiles, prompts that asked students to reflect upon and note patterns in their changing profiles, and prompts that invited students to reflect upon the fit between themselves and those of the guest speakers (i.e., a local historian and journalist), who would take part in the introduction to the unit.

Lydia anticipated several extension activities including explorations about notable leaders from the 1860s, as well as less well-known figures, such as the girls who dressed and fought as soldiers during the Civil War. As she gathered resources to support this unit and its potential extensions, she made sure that her collection featured a variety of introspective materials that would help students understand the beliefs, values, goals, achievements, and sacrifices made by practitioners and enable students’ comparisons between their own emerging beliefs and attitudes and those of the professionals.

Lydia reflected on her continuing journey with the Parallel Curriculum Model. Her journey elicited a clarity that comes only with time and persistence. She now understood deeply the model’s power and promise. It held the power to awaken and support a teacher’s passion and focused creativity. Equally important, it held such promise for uncovering and supporting the gifts and talents of all students.

Lydia imagined each of her students as a diamond (see Figure 2). The model’s four parallels—Core, Connections, Practice, and Identity—served as unique polishing tools to reveal the brilliance in each young person. The Core fostered deep understanding in a discipline, while Connections elicited the metaphoric thinking required to span the breadth of man’s knowledge. Practice advanced the methodological skills required to contribute in a field, and Identity cultivated the attitudes, values, and life outlook that are prerequisites to self-actualization in a field.

The Four Parallels: When & How

We began this article by talking about seven blind men, their limited perceptions about an elephant, and their ultimate realization that: “Knowing in part may make a fine tale, but wisdom comes from seeing the whole.” Lydia’s work with each of the parallels illustrates how different curriculum components can be modified to help students gain an understanding and appreciation for the whole of a particular discipline. There are an infinite number of ways to draw upon the parallels. They can be used to revise or design tasks, lessons, or units. With a revised or designed unit “in hand,” a teacher can move back and forth across one, some, or all parallels in a single unit. Equally attractive, a teacher might use just one parallel to extend a Core unit.

Various individuals within a school can use the parallels differently. A classroom teacher can use the parallels separately for different purposes, or teachers can work collectively—within grade levels, across grade levels and subjects—to use the parallels to support learning for all, some, or a few students. Furthermore, classroom teachers and teachers of the gifted can use the parallels to modify learning opportunities for students who need something beyond the grade-level curriculum.

What is the driving force behind decisions about when and how to use the parallels? Decisions stem from teacher expertise, the learning goals, and, most important, the students themselves. We draw upon the parallels to make curriculum more meaningful, emotive, powerful, engaging, and more likely to advance energetically the abilities and talents of students.

The PCM holds the power to help students and teachers “see the whole” of what they are learning. It is our hope that curriculum based upon this model will optimize student learning and enhance the likelihood that all students will lead productive and fulfilling lives. We invite practitioners to read more about this model and join us on a professional journey that we believe will yield that joy and wisdom that comes from seeing the whole. The possibilities are limitless.

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