

Introduction to the Revised Mathematics TEKS (2012) – Module 1

This is the first of four modules to introduce the Revised TEKS for grades K – 8. The goals for participation are to become familiar with the focal points and the TEKS comparison documents, to examine how to use the documents to improve overall mathematics instruction, and to explore vertical alignment of mathematical concepts and processes within the Revised TEKS (2012). CPE credit is 3.

Course Introduction

This lesson presents a brief overview and organizational framework of the course.
(Estimated time: 10 min.)

01 – How do You Look at Things?

As you explore the Revised Math TEKS (2012), you will at times look at the big picture, forest-level view, zoom in a bit to see the trees, or zoom in even further to take a leaf-level look.
(Estimated time: 35 min.)

02 – The TxRCFP

Review the [Texas Response to Curriculum Focal Points, Revised 2013](#) (TxRCFP Revised 2013) on the Project Share Gateway.
(Estimated time: 30 min.)

03 – The TxRCFP Scavenger Hunt

Complete a scavenger hunt using the Texas Response to Curriculum Focal Points Highlights document and the Texas Response to Curriculum Focal Points in order to do a quick survey of the documents.
(Estimated time: 15 min.)

04 – Process Standards

Study the process standards and complete an activity by summarizing each process standard with a short phrase.
(Estimated time: 30 min.)

05 – A Vertical Look at the Focal Points (grade band specifics)

Explore the focal points and complete an activity by arranging them in progression across the grade levels.
(Estimated time: 30 min.)

06 – Journal Entry

Use the Vertical Look document to review the chart created in the previous lesson section.
(Estimated time: 10 min.)

07 – Zooming In

Study the highlights page and Vertical Look document. Record your observations on what the document tells you and does not tell you in the appropriate section of your journal.
(Estimated time: 30 min.)

08s – Where are the Connections? (grade 6-8 only)

Learn about consecutive vs. nonconsecutive connections and how they apply to grade six through grade eight.
(Estimated time: 5 min.)

08 – Taking A Closer Look: Key Concepts and Procedures (grade band specifics)

Explore key concepts and procedures according to your grade band.
(Estimated time: 10 min.)

09 – Taking a Closer Look at Focal Points (grade band specifics)

Review the [Texas Response to Curriculum Focal Points, Revised 2013](#) (TxRCFP Revised 2013) on the Project Share Gateway and record your notes about the development of the identified key concepts and procedures in your journal. (Estimated time: 30 min.)

10 – Discussion Question (grade band specifics)

Learn about the role that the Texas Response to Curriculum Focal Points and the Vertical Look documents play in strengthening knowledge of the mathematics concepts and processes according to grade band. (Estimated time: 10 min.)

11 – Perks and Pitfalls of the Vertical Look Document

Consider the Vertical Look chart and think about any perks and pitfalls of using the document. (Estimated time: 5 min.)

12 – Strands vs. Focal Points

Learn about different ways that student expectations are organized. (Estimated time: 5 min.)

13 – Using the Focal Points to Build Depth and Complexity

Learn about how focal points build depth and complexity and explore various resources for more information on the Texas Response to Curriculum Focal Points. (Estimated time: 5 min.)

14 – Using the Focal Points to Amplify Instructional Tasks (grade band specifics)

Consider a process to amplify instructional tasks. Look at a grade band specific task, explore a process that could be used to amplify this task, and examine an example of an amplified task. (Estimated time: 5 min.)

15 – What should we Consider when Amplifying Tasks?

Explore a process you can use to amplify a given task and provide opportunities to make multiple connections. (Estimated time: 5 min.)

16 – Consider the Revised TEKS in the Original Task

Identify main skills and related skills involved in the original task. (Estimated time: 5 min.)

17 – Consider the Curriculum Focal Point

Explore other mathematical ideas, given additional information. (Estimated time: 5 min.)

18 – Consider the Context

Consider context, related ideas, and cross-curricular connections in relation to the task. (Estimated time: 5 min.)

19 – Consider the Student

Learn what Tier I differentiation may be needed to reach a struggling student, an English language learner, and/or an advanced student. (Estimated time: 5 min.)

20 – Amplifying Instructional Tasks

Study the Amplifying Instructional Tasks journal page and the Amplifying Instructional Tasks handouts to see how the related student expectations and ideas were used.

(Estimated time: 20 min.)

21 – What was our Process?

Review the process.

(Estimated time: 5 min.)

22 – How did we Use the Focal Points to Build Depth and Complexity?

Review how the focal points serve to guide your thinking in identifying possible related ideas that could be explored in an amplified problem.

(Estimated time: 5 min.)

23 – A Side-by-Side TEKS Comparison

Review the Side-by-Side TEKS Comparison Highlights and documents to answer questions in your journal.

(Estimated time: 30 min.)

24 – Personal Financial Literacy

Take a look at the new personal financial literacy standards.

(Estimated time: 5 min.)

25 – Zooming in Further (grade band specifics)

Study the strands from the current TEKS for content that remains or is clarified, new, or deleted and learn about using the Forums.

(Estimated time: 40 min.)

26 – Pulling it All Together

Reflect on how the Focal Points, Vertical Look documents, and Side-by-Side TEKS Comparison are related.

(Estimated time: 5 min.)

27 – Goodbye and Send off

In this lesson, you will finalize and share your journal. You will also review videos to prepare for completing the course quiz. The course quiz is available from the Epsilon course menu located on the left-hand side of the browser window.

(Estimated time: 5 min.)

Helpful Tips

The following are tips to help you navigate this online course:

- Access the "Materials for Download" section for transcripts, documents, references, and other resources.
- Download the latest version of Adobe Reader to use the interactive journal PDF documents.
- For videos, use the controller bar to play, pause, fast-forward or rewind, and adjust video volume. Click the full screen button to increase the video size and click it again to return to normal video size.
- Click the "Previous" or "Next" buttons to move from one section of the course to another.
- Interactive activities in this course work best in Firefox, Chrome or Safari browsers. If you are using Internet Explorer, you may use the Print Screen feature to capture your work in lieu of the Print button in the interactive activity.

List of Course Activities – Introduction to the Revised Mathematics TEKS (2012) – Module 1

Use this checklist to track the completion of activities in the course.

Course Introduction

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|---|----------------------|
| <input type="checkbox"/> View the Introduction & Welcome video. | Video: 01:13 min. |
| <input type="checkbox"/> Download and review the grade band specific journal. | Activity: 30:00 min. |

01 – How do You look at things?

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|--|-------------------|
| <input type="checkbox"/> View the video about exploring the Revised Math TEKS. | Video: 00:28 min. |
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02 – The TxRCFP

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| <input type="checkbox"/> View the video and review the Texas Response to Curriculum Focal Points, Revised 2013 (TxRCFP Revised 2013) on the Project Share Gateway. | Video: 00:30 min.
Activity: 30:00 min. |
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03 – The TxRCFP Scavenger Hunt

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| <input type="checkbox"/> View the video detailing the TxRCFP Scavenger Hunt. | Video: 00:36 min. |
| <input type="checkbox"/> Download and review the grade band specific Side-by-Side TEKS Comparison Highlights document. | Activity: 15:00 min. |

04 – Process Standards

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| <input type="checkbox"/> View the videos about process standards. | Videos: 01:16 min. |
| <input type="checkbox"/> Complete the process standards activity. | Activity: 30:00 min. |

05 – A Vertical Look at the Focal Points (grade band specifics)

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| <input type="checkbox"/> View the videos and complete the Focal Points activity. | Videos: 06:50 min.
Activity: 15:00 min. |
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06 – Journal Entry

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| <input type="checkbox"/> View the video and learn about taking notes in your journal. | Videos: 00:21 min.
Activity: 10:00 min. |
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07 – Zooming In

- View the videos for an overview of the Vertical Look at Key Concepts and Procedures Highlights documents.

Video: 00:51 min.

08s – Where are the Connections? (Grade 6-8 only)

- View the overview video to learn about grade 6-8 connections.

Video: 00:51 min.

08 – Taking A Closer Look: Key Concepts and Procedures (grade band specifics)

- View the video and take a closer look at grade band specific key concepts and procedures.

Video: 05:08 min.

09 – Taking a Closer Look at Focal Points (grade band specifics)

- View the videos and learn about grade band specific focal points.

Video: 02:22 min.

- Please review the [Texas Response to Curriculum Focal Points, Revised 2013](#) (TxRCFP Revised 2013) on the Project Share Gateway.

Activity: 30:00 min.

10 – Discussion Question (grade band specifics)

- View the discussion questions videos.

Activity: 03:25 min.

- Take a closer look at the role the Texas Response to Curriculum Focal Points and the Vertical Look document play in strengthening knowledge of the mathematics concepts and processes in grade band specific examples.

Activity: 05:00 min.

11 – Perks and Pitfalls of the Vertical Look Document

- View video to learn about the perks and pitfalls of the Vertical Look document.

Video: 00:22 min.

12 – Strands vs. Focal Points

- View the video about how the Vertical Look document and the Texas Response to Focal Points organize student expectations in different ways.

Video: 00:41 min.

13 – Using the Focal Points to Build Depth and Complexity

- View the video and review the [Texas Response to Curriculum Focal Points, Revised 2013](#) (TxRCFP Revised 2013) on the Project Share Gateway.

Video: 00:30 min.

Activity: 30:00 min.

14 – Using the Focal Points to Amplify Instructional Tasks (grade band specifics)

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|--|----------------------|
| <input type="checkbox"/> View the video detailing the TxRCP Scavenger Hunt. | Video: 00:36 min. |
| <input type="checkbox"/> Download and review the grade band specific Side-by-Side TEKS Comparison Highlights document. | Activity: 15:00 min. |

15 – What should we Consider When Amplifying Tasks?

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| <input type="checkbox"/> View the videos about amplifying tasks. | Videos: 00:54 min. |
| <input type="checkbox"/> Review the Amplifying Instructional Tasks example in your journal and explore processes to amplify the original task. | Activity: 05:00 min. |

16 – Consider the Revised TEKS in the Original Task

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| <input type="checkbox"/> View the videos and consider how the Revised TEKS apply to the original task. | Videos: 01:02 min. |
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17 – Consider the Curriculum Focal Point

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| <input type="checkbox"/> View the video and learn about exploring other mathematical ideas. | Videos: 00:59 min. |
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18 – Consider the Context

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| <input type="checkbox"/> View the videos for an overview of the importance of context. | Video: 00:48 min. |
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19 – Consider the Student

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| <input type="checkbox"/> View the video to learn how Tier I differentiation may be needed to reach different types of students. | Video: 00:39 min. |
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20 – Amplifying Instructional Tasks

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| <input type="checkbox"/> View the video about amplifying instructional tasks. | Video: 01:04 min. |
| <input type="checkbox"/> Study the Amplifying Instructional Tasks journal page and the Amplifying Instructional Tasks handouts to see how the related student expectations and ideas were used. | Activity: 20:00 min. |

21 – What was Our Process?

- View the videos and review the process.

Video: 00:23 min.

22 – How did we Use the Focal Points to Build Depth and Complexity?

- View the video to review how the focal points are used to build depth and complexity.

Video: 00:23 min.

23 – A Side-by-Side TEKS Comparison

- View the video for an overview of the Side-by-Side TEKS Comparison documents.

Video: 00:35 min.

- Please review the Side-by-Side TEKS Comparison documents for your grade band.

Activity: 30:00 min.

24 – Personal Financial Literacy

- View the video to learn about the new personal financial literacy student expectations.

Video: 00:27 min.

25 – Zooming in Further (grade band specifics)

- View the videos to take a closer look at grade band specific strands from the Current TEKS and learn about using the Forums.

Video: 02:33 min.

- Complete the activity studying the grade band specific strands from the Current TEKS and record your observations in the Individual Study Recording Sheet – Side-by-Side TEKS Comparison page in your journal. Please use the online Forum to discuss your findings.

Activity: 30:00 min.

26 – Pulling it All Together

- View the video and consider how the various documents you've studied are related.

Video: 01:03 min.

27 – Goodbye and Send off

- View the video and the Focal Points and TEKS Comparison module.

Activity: 00:35 min.