

Syllabus for ESTAR/MSTAR Learning Progressions

This course explores the learning progressions created specifically for the ESTAR/MSTAR Diagnostic Assessments. Participants will explore the definition of learning progressions in general, information about the ESTAR/MSTAR learning progressions, and the use of learning progressions in mathematics instruction and assessment in order to better prepare students for algebra. Participants will also become familiar with the ESTAR/MSTAR Diagnostic Assessments. CPE credit is 3.

Introduction and Overview

In this lesson, you will review the Texas Algebra Ready Initiative (TXAR), Texas Response to Curriculum Focal Points (TxRCFP), and where the ESTAR/MSTAR Learning Progressions fit within in the MSTAR Project professional development system.

(Estimated time: 15 min.)

What is a Learning Progression?

In this lesson, you will distinguish between the term "learning progression" and other common terms, identify elements that comprise a learning progression, examine examples, and identify the importance of understanding and using learning progressions.

(Estimated time: 40 min.)

A Close Look at the ESTAR/MSTAR Learning Progressions

In this lesson, you will learn how the ESTAR/MSTAR Learning Progressions were developed, identify the five elements, and explore the content focus.

(Estimated time: 50 min.)

Using the ESTAR/MSTAR Learning Progressions for Instruction

In this lesson, you will focus on the classroom-level implications for instruction in the ESTAR/MSTAR Learning Progressions.

(Estimated time: 40 min.)

Using the ESTAR/MSTAR Learning Progressions for Assessment

In this lesson, you will analyze the different forms of formative assessment, differentiate between the two ESTAR/MSTAR assessments and identify when to use each, and examine item characteristics of each assessment.

(Estimated time: 50 min.)

Conclusion

In this lesson, you will also review videos to prepare for completing the course quiz.

(Estimated time: 15 min.)

Helpful Tips

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

- Access the Materials for Download section for transcripts, handouts, references, and other resources.
- 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.

List of Course Activities – ESTAR/MSTAR Learning Progressions

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

Introduction and Overview

- | | |
|---|---------------------------------|
| <input type="checkbox"/> View the course introduction video. | Video: 04:57
Activity: 10:00 |
| <input type="checkbox"/> View the Texas Algebra Ready Initiative (TXAR) video. | Video: 02:09 |
| <input type="checkbox"/> View the Texas Response to Curriculum Focal Points (TxRCFP) video. | Video: 00:42 |
| <input type="checkbox"/> View the Professional Development video. | Video: 02:02 |
| <input type="checkbox"/> View the Planning Instruction video. | Video: 00:54 |
| <input type="checkbox"/> View the Course Objectives video. | Video: 00:38 |
-

What is a Learning Progression?

- | | |
|--|----------------------------------|
| <input type="checkbox"/> View the videos and take notes in your learning portfolio. | Videos: 02:44
Activity: 05:00 |
| <input type="checkbox"/> View the videos. | Videos: 01:09
Activity: 05:00 |
| <input type="checkbox"/> View the video and take notes and complete the TEKS standard activity in your learning portfolio. | Video: 02:38
Activity: 10:00 |
| <input type="checkbox"/> View the video and take notes in your learning portfolio. | Video: 02:29
Activity: 10:00 |
| <input type="checkbox"/> View the videos. | Videos: 04:56 |
| <input type="checkbox"/> View the video, reflect on the lesson, and add to page one in your learning portfolio. | Video: 01:01
Activity: 05:00 |
-

A Close Look at the ESTAR/MSTAR Learning Progressions

- | | |
|---|---------------|
| <input type="checkbox"/> View the videos. | Videos: 02:28 |
|---|---------------|

View the video introducing the two target learning progressions. Video: 00:43

View the video about Learning Progression RN – Levels and take notes in your learning portfolio. Video: 00:43
Activity: 05:00

View the video about Learning Progression RN – Sublevels. Video: 02:26

View the video about Learning Progression VE – Levels and take notes in your learning portfolio. Video: 00:56
Activity: 05:00

View the video about Learning Progression VE – Sublevels. Video: 02:09

View the video and complete the activity in your learning portfolio. Video: 02:12
Activity: 10:00

View the videos and take notes in your learning portfolio. Videos: 02:57
Activity: 10:00

View the video, reflect on the lesson, and record your thoughts in your learning portfolio. Video: 00:16
Activity: 05:00

Using the ESTAR/MSTAR Learning Progressions for Instruction

View the video. Video: 00:57

View the videos. Videos: 07:05

View the video. Video: 01:55

View the video and take notes in your learning portfolio. Video: 02:40
Activity: 05:00

View the video and reflect on the lesson. Video: 00:26

Using the ESTAR/MSTAR Learning Progressions for Assessment

View the video. Video: 00:27

View the video and take notes on pages 14-16 in your learning portfolio. Video: 04:22
Activity: 10:00

View the video. Video: 03:57

View the video. Video: 01:13

<input type="checkbox"/> View the video, complete the Screener or Diagnostic activity, and watch the activity debrief video.	Videos: 01:05 Activity: 05:00
<input type="checkbox"/> View the video.	Videos: 02:34
<input type="checkbox"/> For each item, view the introductory video, record your thoughts on pages 18 and 19 of your learning portfolio, then watch the debrief video.	Videos: 05:04 Activity: 10:00
<input type="checkbox"/> Complete the Item Analysis Activity.	Activity: 05:00
<input type="checkbox"/> View the video, reflect on the lesson, and record your thoughts in your learning portfolio.	Video: 00:36 Activity: 05:00

Conclusion

<input type="checkbox"/> View the video.	Video: 00:40
<input type="checkbox"/> View the videos to review for the course quiz.	Videos: 08:03 min.