

Tennessee at Home Learning Series: Guide for Math Educators using PBS Lessons

The Tennessee Department of Education is partnering with PBS to deliver daily ELA and mathematics lessons for Tennessee students in 1st - 8th grades from 10 a.m. and 12 p.m. local time beginning April 6. Four additional hours of content, which viewers can watch live or record, will be streamed each weeknight. Check your local PBS channel for the night broadcasting hours as these will vary by station. ¹ Educators across the state can tailor the PBS lessons to meet their own learning plans or can use more broadly to ensure families have access to learning daily. Some ways to maximize the PBS content include:

- Encouraging students and families to schedule PBS lessons into their regular day whether recorded or live;
- Preview the content, times and lessons with families through regular school to family connections (e.g., teacher weekly calls, principal robo calls, email updates, or weekly packets);
- Providing students and families with learning topic schedule and resources found here: <https://www.tn.gov/education/pbsteaching>. Front load learning opportunities for parents and care givers so they are prepared to support learning experiences.
- Connecting PBS learning content to existing learning plans for classrooms, schools and district planning.

PBS Lesson Structure and Content

Each 30-minute lesson involves an introduction, guided practice, and independent practice. In math, this means the teacher begins an introductory problem within context of the standard before moving into a guided practice session where the focused mathematical concepts are reviewed and reinforced within each problem presented. Finally, each student is provided with independent practice. Independent practice worksheets are referenced at the end of the lesson, each tailored for completion within a reasonable timeframe of 15-20 minutes.

Districts can use these lessons as scheduled or incorporate the recorded lesson into their existing student learning plans.

Each week-long series focuses on a mathematics standard or sequence of standards within a cluster. The table below shows the topics for each grade level.

	<i>Set 1</i>	<i>Set 2</i>
<i>Grade 1</i>	Finding the Unknown Number-Focus on Addition	Finding the Unknown Number-Focus on Subtraction
<i>Grade 2</i>	Numbers and Operations in Base Ten	Use Addition and Subtraction Strategies with Two-Digit Numbers
<i>Grade 3</i>	Operations and Algebraic Thinking	Find an Equivalent Fraction
<i>Grade 4</i>	Place Value	Add and Subtract Fractions
<i>Grade 5</i>	Fractions	Subtract Fractions

¹ Tennessee has six PBS stations: WNPT Nashville, East Tennessee PBS, WCTE Upper Cumberland, WKNO Memphis, West TN PBS, and Chattanooga WTCI.

<i>Grade 6</i>	Writing and Evaluating Numerical Expressions	Divide Fractions
<i>Grade 7</i>	Expressions and Inequalities	Add and Subtract Positive and Negative Numbers
<i>Grade 8</i>	Expressions and Equations	Using Functions to Model Linear Relationships

How Educators Can Maximize Materials

Though the PBS video lessons are designed to support students with a wide variety of resources, needs, and backgrounds, they cannot take the place of a teacher. In addition, though they are designed to support practice-based learning, and they cannot take the place of local curriculum and programming. The video lessons are not tailored to different groups of learners as learners' specific needs cannot be determined in widely broadcasted video lessons.

Here are some ways in which school and district educators can maximize the At Home Learning Series as a family-centered learning experience:

- Make sure students and their families know when and where to find the lessons whether this is through packet delivery or digital communications
- Encourage students and their family members to engage with the lessons together.
- Initiate conversations with students and families about upcoming topics. This will build both anticipation and background knowledge.
- Debrief lessons with students and families in weekly communications. Ask students and families what they learned and what lingering questions they have. Recommend further reading on lesson topics if possible.
- If possible, collect, review, and provide feedback on the work students complete for independent practice. For maximum coherence, also watch the beginning of the next lesson, which often reviews and reflects on the independent work assigned in the previous lesson. Include families in feedback loops if feasible.
- Look for connections between lesson topics and local curriculum content, including ELA curriculum as well as science, social studies, fine arts, and other subjects. Point out and strengthen those connections through conversations and assignments.

For the PBS broadcast schedule and links to lesson plans, videos, and texts, please visit <https://www.tn.gov/education/pbsteaching>