STEMscopes™
THE LEADER IN STEM EDUCATION

Learning Continuity Plan

Did you know STEMscopes can help you complete your district's Learning Continuity Plan?

District leaders are preparing for learning continuity for the 2020-21 school year. We hope to make this task a little easier so you can keep the remote learning going all year long.

The table below provides examples of how STEMscopes curriculum and resources can help support a district Learning Continuity Plan (LCP). We hope you find strategies that align with your district's practices that you can use or adapt when preparing your Learning Continuity Plan.

Why STEMscopes?

STEMscopes provides curriculum, instructional practices, tools, and professional development that support a well developed Learning Continuity Plan. These include:

- in-person instructional offerings
- distance learning programs
- strategies for addressing pupil learning loss
- increased services for students in foster care, English learners, and low income students

Continuity of Learning Options Available through STEMscopes

In-Person Instructional Offerings

STEMscopes in-person instruction, easily accessed at school or home, serves as a vehicle for

- strengthening classroom-based instruction
- increasing teacher and student competence and comfort with digital curriculum and online tools, supporting instructional continuity for pupils if a transition between in-person and distance learning is necessary

STEMscopes Digital Science Curriculum K-12 is designed to differentiate instruction for students, including those who have experienced significant learning loss due to school closures in 2019-2020 or who are at a greater risk of experiencing loss due to future school closures.

- Provides bilingual content PK-12
- Is delivered digitally in a classroom or alternate location
- Provides thousands of engaging learning activities, including readings, videos, and simulations, from any location with an internet connection
- Reinforces math and literacy skills
- Includes multiple, varied formative assessments
- Allows for district or school level coordination of learning

Professional Development Supporting In-Person Instruction

Instructional Coaching:

- Customized coaching focuses on how teachers support students who have experienced significant learning loss due to school closures or who are at greater risk of experiencing loss due to future school closures.

Online Courses:

- The *STEM Essentials* Micro Certificates (twelve 3-hour, asynchronous courses) strengthen teachers' implementation of hands-on science, both in-person and online.
- The *Teaching Online* Micro Certificates (eight 3-hour, asynchronous courses) strengthen teachers' use of online learning strategies to strengthen in-person instruction, facilitate online instruction, and ease the potential transition to distance learning in the future.
- *Maximizing STEMscopes NGSS* (one 3-hour, asynchronous course) strengthens teachers' use of the 5E model and overall use of STEMscopes resources.

Distance Learning Program

Continuity of Instruction

Pupils have access to the same STEMscopes curriculum whether in-person or online. This facilitates instructional continuity for pupils if a transition between in-person instruction and distance learning is necessary.

The STEMscopes Digital Science Curriculum includes several features specifically designed to support distance learning, including

- thousands of engaging learning activities, such as readings, videos, and simulations, accessible from any location with an internet connection
- auto save of student responses to avoid lost work (fall 2020 release)
- videos that introduce real-world phenomena
- hands-on learning activities that can be completed remotely, outside of the physical classroom
- interactive text features that enable students to highlight and take notes digitally within the online digital textbook, as well as a wealth of other digital student resources and assignments
- the ability to launch virtual class sessions from within STEMscopes (fall 2020 release)
- a curriculum management system that allows for district or school level distribution of assignments or assessments by grade level
- partnerships with external organizations such as Schoology (in development) to help teachers set up classes and manage grades
- parent support tools including parent letters, background materials on the content, and at-home activities

Pupil Participation and Progress is supported through

- tracking of student attendance for either synchronous or asynchronous instruction
- embedded formative and summative digital assessments within each lesson and unit, as well as grade-level start-of-year pre-assessments and end-of-year benchmark assessments with standards-aligned analytics for granular identification of learning gaps
- online grading and feedback

Distance Learning Professional Development services include

Instructional Coaching:

- Customized coaching can help teachers support students who have experienced significant learning loss due to school closures or who are at greater risk of experiencing loss due to future school closures.
- Customized coaching can help teachers ensure instructional continuity for pupils.
- Customized coaching can help teachers facilitate “hands-on” science at home.

Asynchronous Online Courses:

- The *STEM Essentials* Micro Certificates (twelve 3-hour, asynchronous courses) strengthen teachers’ implementation of the NGSS and hands-on science, both in-person and online.
- The *Teaching Online* Micro Certificates (eight 3-hour, asynchronous courses) enhance teachers’ use of online learning strategies in both the distance and in-person learning environments.
- *Maximizing STEMscopes NGSS* (one 3-hour, asynchronous course) strengthens teachers’ use of the 5E model and overall use of STEMscopes resources.

Distance Learning Program (continued)

Support for Pupils with Unique Needs (including ELL, exceptional needs, foster care, and homeless students) include

- anytime, anywhere learning with an internet connection
- bilingual curriculum
- leveled reading materials
- text-to-speech "read aloud" function
- text magnification
- "just in time" vocabulary support
- picture vocabulary in English and Spanish
- multiple and varied assessments
- reteach materials embedded within every lesson
- reinforcement of math and literacy skills within science content
- embedded ELL supports, including facilitation call-outs for teachers, supplemental activities, graphic organizers, and sentence frames.

Pupil Learning Loss

STEMscopes Benchmark Assessments identify and target support for learning losses, in addition to measuring the effectiveness of services and supports provided. These include

- beginning and end-of-year assessments
- cumulative assessments monitoring each grade level's performance expectations
- detailed, standard-specific, data reports on each student's learning

STEMscopes Formative Assessments measure the effectiveness of services or supports provided to address learning loss. Examples include

- mid-year formative assessments
- performance-based assessments
- traditional assessments
- a tool for building customized assessments

Actions to Address Pupil Learning Loss include

- individual and small group instruction
- targeted and scaffolded instruction
- numerous curriculum support features, such as
  - leveled reading materials
  - reinforcement of math and literacy skills within the science content
  - text-to-speech "read aloud" function
  - "just in time" vocabulary support
  - a robust video library
  - the ability to launch virtual classes from within STEMscopes (being released fall 2020)
  - picture vocabulary in English and Spanish

Increased/ Improved Services for Foster Youth, English Learners, and Low Income Students

As long as the user has internet access, the **STEMscopes Digital Science Curriculum**

- supports teachers in tracking attendance for both synchronous or asynchronous instruction, regardless of a student's physical location (fall 2020 release)
- can be accessed by individual students, and provides a history of their submitted work, regardless of a student's physical location
- can assign specific tasks and assessments to students by grade level, regardless of their physical location
- provides at-home video, including Investigative Phenomena, STEMscopes Streaming, and activity set up videos for students to view and respond to online
- includes online grading and student feedback
- is available in both English and Spanish