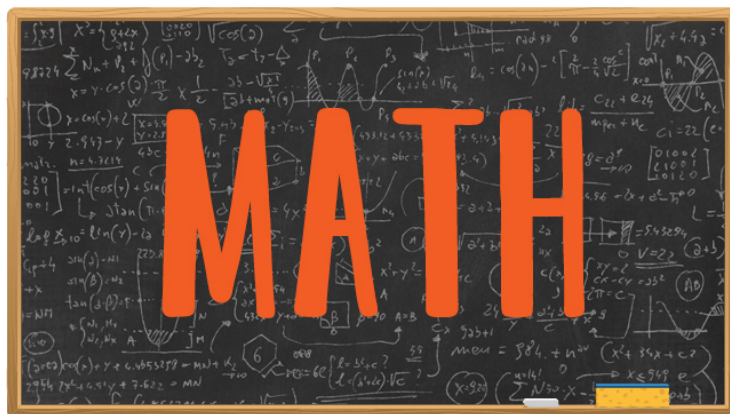




WORKBOOK





OVERVIEW OF SYLVANSYNC MATHEMATICS

1) As a SylvanSync Mathematics Teacher, you will deliver instruction based on 5 Guiding Principles. The 5 Guiding Principles are:

1. Students build new _____ on what they have already learned.
2. _____ is critical to helping students learn specific skills.
3. _____ is the instructional support given by the teacher or an electronic system during the instructional process.
4. Students need opportunities to demonstrate _____ through checks of their knowledge and application of skills.
5. _____ requires that students reflect on what they learned, how they learned it, and how they will apply what they learned in the future.

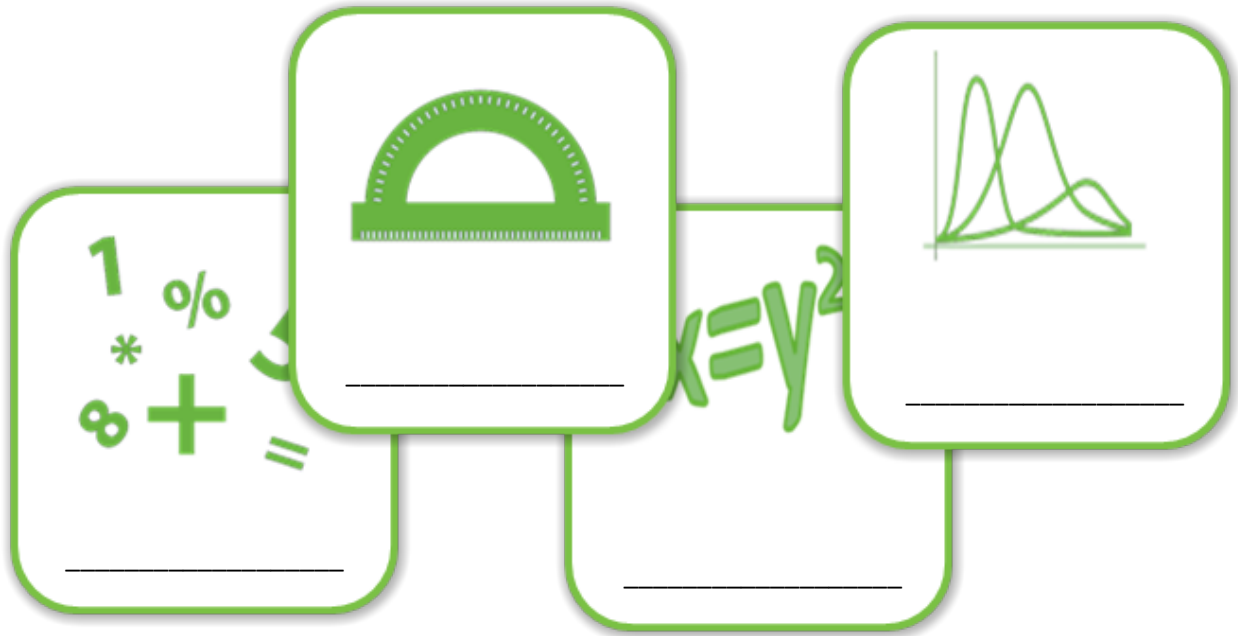
2) Successful math students have four key traits in common. The traits are:



1. Have _____ with basic facts
2. Apply skills with _____ and _____
3. Understand _____ concepts and conceptions among _____
4. Solve problems _____

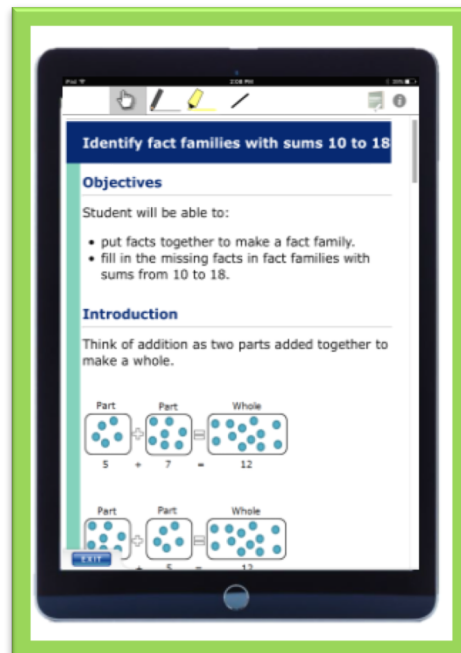


3) SylvanSync Mathematics consists of four main strands. The four strands are:



4) Each Mathematics strand consists of a combination of the following Lesson Objects:

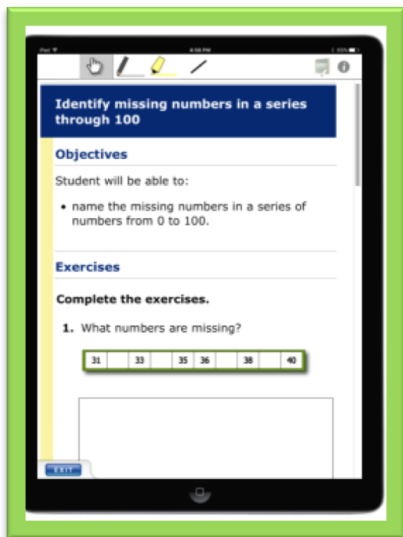
- _____
- _____
- _____
- _____
- _____
- _____
- _____





UNIQUE TO SYLVANSYNC MATHEMATICS

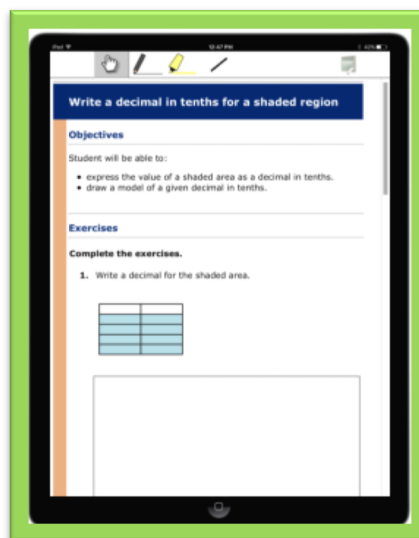
5) Applied Practice



- In the Applied Practice, your student will demonstrate his or her ability to apply the concept by _____ solving problems.
- Whenever possible, you should assign the AP immediately following the _____.
- You will check in to make sure your student understands the skills, but you will not actually _____ your student.
- Students should _____ missed problems after scoring is complete.

6) Mastery Test

- In the Mastery Test, your student will demonstrate his or her ability to independently solve problems that address the _____ defined by the objectives
- Deliver the Mastery Test on a different day from the _____.
- Before the test, have the student review _____ or a few problems from the last IP completed.
- Do not allow your student to _____ his or her answers once you have started scoring the test.



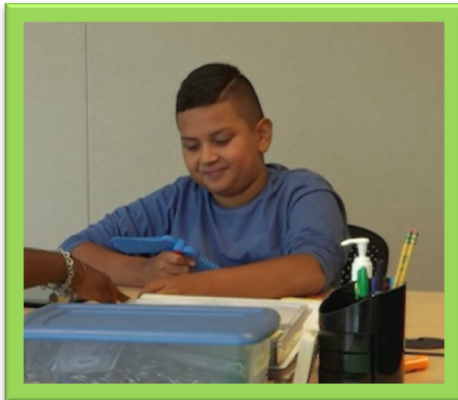


7) Math Facts



- The 5 Math Facts Lesson Objects are:
 - _____
 - _____
 - _____
 - _____
 - _____
- Always have your student start Math Facts in _____
_____ before beginning the test.
- The goal is to achieve _____ accuracy in _____
minutes or less.

8) Supplemental Materials



- _____ are printed resources to support you in the delivery of high quality math instruction.
- There are also many hands-on materials, called _____, available at your Center that allow your student to model and solve problems concretely.



MANIPULATIVES, TABLE TOOLS, AND MATERIALS FOR MATHEMATICS

9) Manipulatives



- A manipulative is a _____ material that students use to _____ and _____ problems concretely.
- Students retain more information when _____ working with materials.
- _____ can help facilitate communication with your students.
- One way you can tell if your student has full _____ of a concept is if he/she can explain the concept to you by _____ it with manipulatives.

10) Table Tools

- Table Tools are _____ that support you in the delivery of high-quality Mathematics instruction.
- Some tools provide a _____ for different mathematical concepts, while others are _____ and provide a work space for your students to practice.
- The three levels of Table Tools are:





11) Materials



- Make sure that you have _____, _____, and _____ on your table before the session begins.
- Depending on the content that the student is working on, you may also need math tools such as a _____, _____, _____, _____, or _____.
- You will need _____ for motivation and _____ or _____ for your student's Learning Logs.

INSTRUCTING SYLVANSYNC MATHEMATICS

12) Getting Ready



- Before your students arrive, review their _____ and choose which _____ to start with.
- You should deliver the LOs in the _____ that they appear in the Daily Learning Plan.
- Review _____ and Student Flags to make sure you are aware of any important information that might affect instruction.
- Prepare materials for the session, including:
 - _____
 - _____
 - _____
 - _____

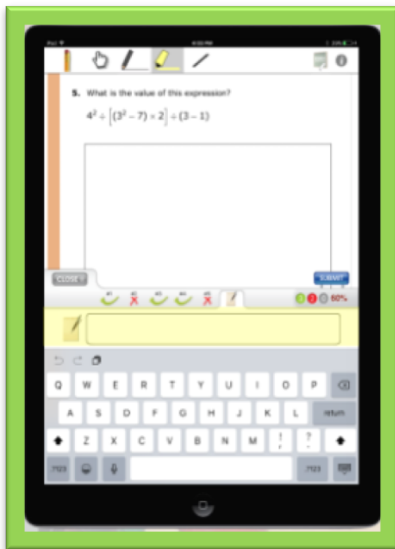


13) Lesson Objects



- While you deliver the Guided Practice, the other students at the table should be working _____.
- Check in with the student and answer questions during the Applied Practice, but do not provide _____.
- Before launching the Mastery Test, remind the student of past _____ to avoid.
- During Math Facts, always have the student start in _____.

14) Lesson Notes



- Lesson Notes are entered at the end of each _____.
- Lesson notes are notes to the _____ and the next _____.
- What is the purpose of Lesson Notes?



15) Session Notes



- Session Notes are entered at the end of each _____.
- What is the purpose of Session Notes?

When capturing Session Notes, use the WAS method:







“Travis struggled a bit with adding fractions and seemed to forget what he learned during the GP (_____).

However, he was motivated by earning more tokens (_____), and after doing a quick review, he was back on task and did the rest of the activities on his own (_____).



16) Time Management



- During each Mathematics Session, each student should complete:
 - Between _____ LOs
 - _____ Mastery Test, if available
 - _____ Math Facts, if available
 - _____ or more GP, IP, and AP
- When should you start a new skill?

- If a student finishes his or her work early, encourage him or her to:
 - _____ his or her work
 - Begin to think about his or her _____
_____ response
 - Work with _____
 - Review _____ cards
 - Practice _____

