

PERSONAL MATH TRAINER

USER'S GUIDE FOR THINK CENTRAL



Contents

I. OVERVIEW AND MODES OF PMT.....	2
II. SETTING UP A CLASSROOM WITH ADAPTIVE LEARNING.....	4
III. LOCATING THE PMT.....	4
IV. ASSIGNING THE PMT.....	7
V. MODIFYING AND CUSTOMIZING THE PMT.....	9
VI. STUDENTS ACCESSING THE PMT.....	12
VII. GENERATING REPORT.....	13

I. OVERVIEW AND MODES OF PMT

PMT (Personal Math Trainer) is a powerful tool that monitors student assessments, quizzes, and homework to provide them with targeted support.

The PMT can be utilized in the following ways.

- **Assessment:** can be used for diagnostic, formative and summative assessment
- **Practice:** reinforces what has been taught and offers learning aids
- **Adaptive Intervention and Enrichment:** builds a student profile, identifies student proficiencies and weaknesses and can create a personalized learning path
- **Tracking:** can show student progress and growth over time
- **Reporting:** can generate district and class reports by standard or by assignment
- **Grading:** automatically scores items (except open response items)

Pre-built PMT Assignments

HMH took the items that are authored in the PMT and organized them into meaningful assignments. In simplest terms, the PMT can be viewed as a collection of pre-built assignments that teachers can assign to students in different modes on Think Central.

Personal Math Trainer

Assessment (Tests and Quizzes) Mode

- Beginning-of-Year, Mid-Year, and End-of-Year Tests (parallel assessments)
- Pre-Test, Post-Test, and Mid-Chapter Checkpoint for every Chapter
- Share and Show for every Lesson (items with check mark in student edition)
- Performance Task for every Chapter and Critical Area
- Quiz for every CC Standard and Cluster

Personal Math Trainer

Homework Mode

- Homework assignment for every Lesson (consists of all items authored for the lesson)
- Pre-Test, Post-Test, and Mid-Chapter Checkpoint for every Chapter
- Quiz for every CC Standard and Cluster

Personal Math Trainer

Knewton Adaptive Mode

- All the pre-built assignments in the two categories above can be assigned to students so that the assignments generate Knewton intervention for students who do not achieve mastery. Or, the same assignments can be given so that they generate Knewton warm-ups or enrichment for students who achieve mastery.

Personal Math Trainer

ISE Mode:







- The ISE (Interactive Student Edition) follows the 5 E instructional model of the lesson. The Elaborate and Evaluate in the ISE link out to the Personal Math Trainer.

Personal Math Trainer

Practice/Student eEdition Mode

- Once available, the Practice Mode is found in the Student Edition eBook under the Resource tab. It is free-play so it will not be scored or tracked by Knewton.

Characteristics of PMT Modes

Modes of PMT	Color of Band	Learning Aid Links	Check Answer/Try Another	Assigned by Teacher	Ability to assign in Knewton Mode	Graded and data fed to reports
Assessment Mode	 Personal Math Trainer	No	No	Yes	Yes	Yes
Homework Mode	 Personal Math Trainer	Yes	Yes	Yes	Yes	Yes
*Knewton Mode	 Personal Math Trainer	Yes	Yes	Yes	N/A	Yes
**ISE Mode	 Personal Math Trainer Elaborate (2 problems)  Personal Math Trainer Evaluate (same items as Homework Mode)	Yes	Yes	Yes	No	Yes
Practice Mode	 Personal Math Trainer	Yes	Yes	No (accessed through eEdition)	No	No (but it will give a score to student)

* **Knewton Adaptive Mode:** It can be applied to any PMT Homework or Assessment assignment so that students are provided personalized intervention or enrichment. You have the option to use PMT without any learning pathways enabled; that is, without using Knewton mode. In this manner, PMT can be a useful tool for helping students adjust to computer-based lessons and assessments. Knewton Adaptive Mode has two adaptive workflows from which to choose:

Daily Intervention and Enrichment Workflow

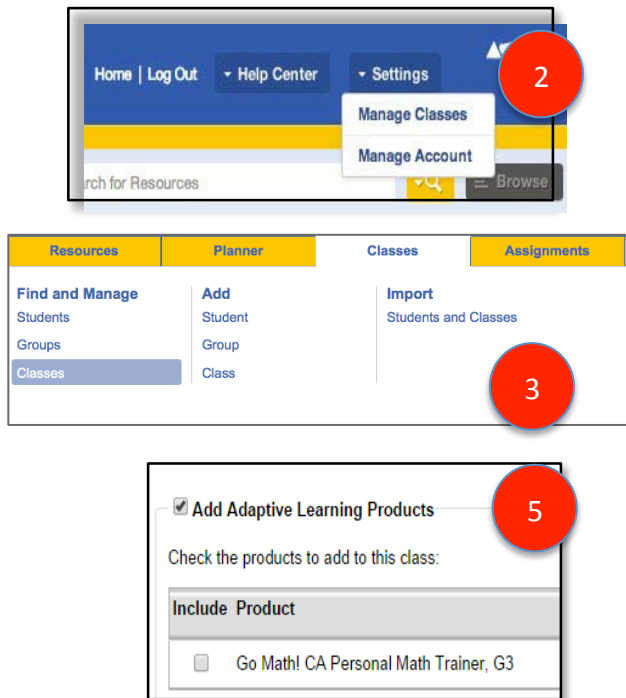
- Knewton Warm-up: generated automatically by Knewton for students who may have difficulty on the upcoming pre-built assignment based on previous assignments (5 mins.)
- Pre-Built Assignment: the HMH assignment being given to the student; includes enrichment threshold setting
- Knewton Enrichment: generated for students who exceeded the Enrichment threshold on the pre-built assignment; includes challenging above-level items (10 mins.)

Personal Study Plan Workflow

- Pre-Built Assignment: the HMH assignment being given to the student; includes Prescriptive intervention threshold setting
- Knewton Prescription: generated for students who score below the intervention threshold on the pre-built assignment; personalized assignment containing items with learning aids intended to address student learning gaps (15 mins.)
- Re-Assessment: the initial Pre-Built Assignment is given to the student again so they can show growth and improve their score

****ISE Mode:** The ISE follows the 5 E instructional model of the lesson. The Elaborate and Evaluate sections link out to the Personal Math Trainer. The Elaborate section contains two items selected to extend students' thinking and apply lesson concepts in problems requiring critical thinking. The Evaluate section contains all the PMT items that are authored for the lesson and are the same items found in Homework Mode. **We do NOT recommend assigning both the ISE and Homework Mode for the same lesson.**

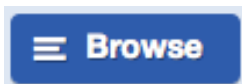
II. SETTING UP A CLASS WITH ADAPTIVE LEARNING



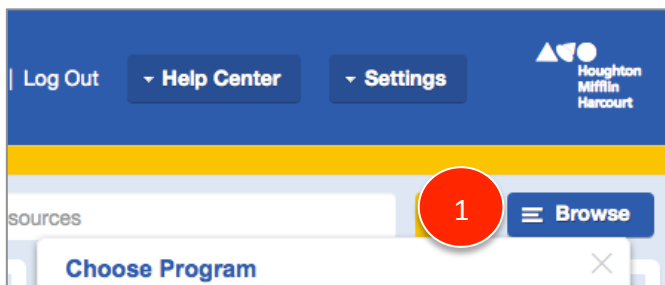
1. Navigate to **ThinkCentral** at <http://www-k6.thinkcentral.com/>
2. Click **Settings** and select **Manage Classes**.
3. Select **Classes** (either **Add Class** or **Manage**).
4. Enter your **Class Name** and **Grade**.
5. Click **Add Adaptive Learning Products**.
6. Select the **Go Math! Personal Math Trainer**.
7. Select the resources for the **Student Library**.
8. Click **Save** and **Assign Students**.

III. LOCATING THE PMT TO MAKE ASSIGNMENTS

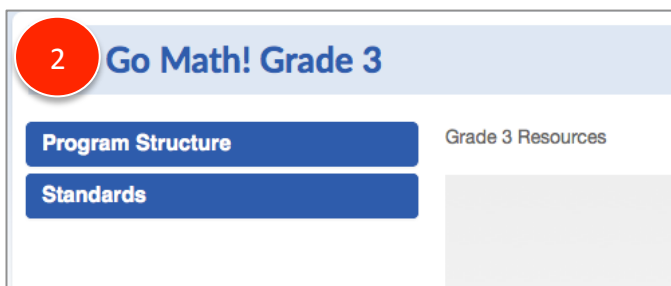
There are several ways to locate the PMT and ISE on Think Central to assign and/or schedule it. The quickest and simplest ways are either through the **Search** or **Browse** function. (Note: The PMT will not be found in the Carousel on the Dashboard or in the Resources)



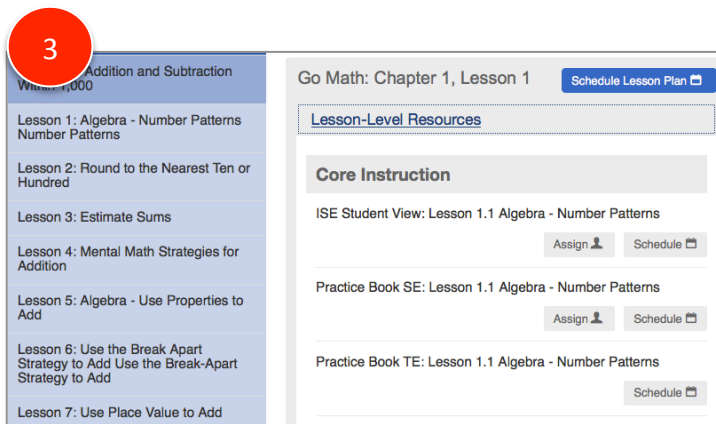
Using **BROWSE** to locate PMT or ISE



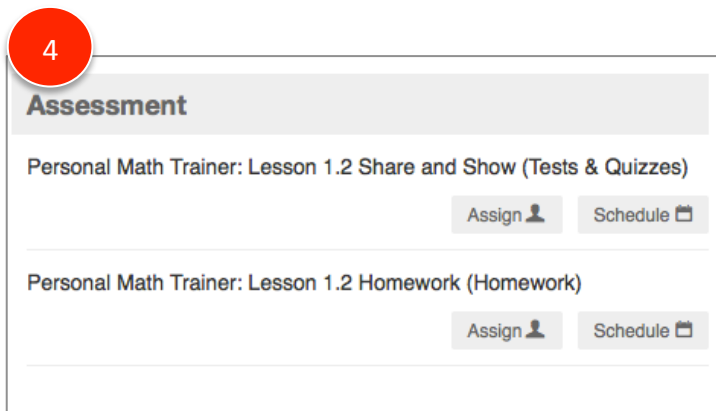
1. Locate **Browse** in top right corner and click on it. Choose program and grade.



2. Select **Program Structure** when on browse page.



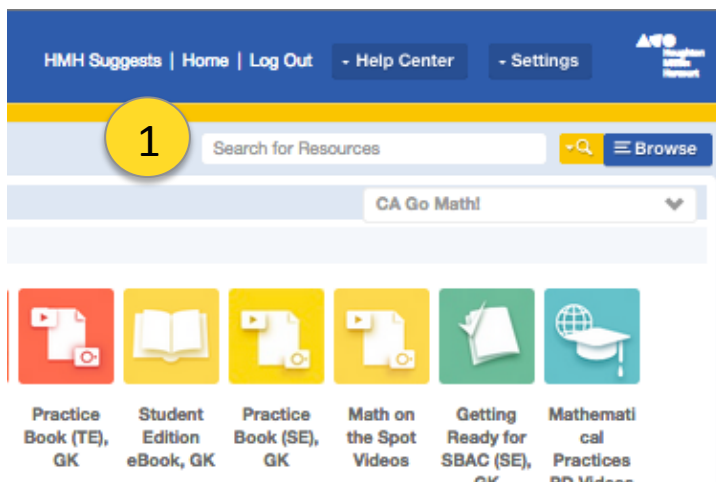
3. Click on the specific **Chapter** or **Lesson** from which you want to assign the PMT or ISE. ISE is found under **Core Instruction**.



4. PMT is found under **Assessment** category . Some PMT assignments are also found in the Grade-Level Resources Section.



Using **SEARCH** to locate PMT or ISE



1. Locate **Search** feature at top of Dashboard.

2

2. Type in the PMT or ISE resource that you want to assign, schedule or preview. **USE CHART BELOW for PMT and ISE titles to use.**

READ ME

FOR THE MOST ACCURATE RETRIVAL OF THE PMT OR ISE ASSIGNMENT THAT YOU WANT TO LOCATE, USE THE CHART BELOW.

Type in exactly what is indicated. Just change to desired chapter, lesson or standard number

PMT	ISE
Personal Math Trainer: "Lesson 1.1"	ISE Student View: "Lesson 1.1"
Personal Math Trainer: "Chapter 7 Pre-test"	
Personal Math Trainer: "Chapter 7 Post-test"	
Personal Math Trainer: "Chapter 7 Mid-Chapter Checkpoint"	
Personal Math Trainer: "Beginning-of-Year"	
Personal Math Trainer: "Mid-Year Test"	
Personal Math Trainer: "End-of-Year Test"	
Personal Math Trainer: "Standard 3.NBT.1 Quiz"	
Personal Math Trainer: "Critical Area 3 Performance Task"	

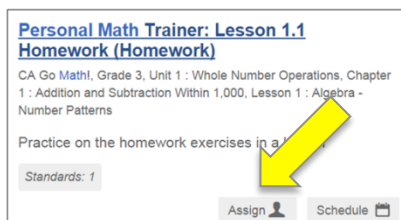
3

3. If you need to filter out information once PMT or ISE is located, use filters to the left.

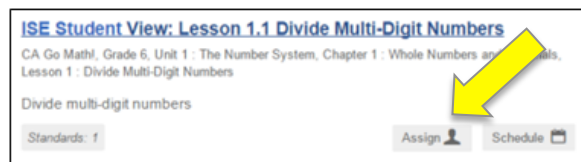
IV. ASSIGNING THE PMT

Assigning the PMT as Test and Quizzes or Homework

When assigning a PMT Assessment or Homework in non-Knewton Mode, the student will only receive the pre-built assignment. See more details about **Characteristics of PMT Modes** on page three.



1. Locate a PMT (or ISE) resource and click **Assign**
(See more details about **Locating PMT assignments** in the previous section).



Assign

Resource Option

[Personal Math Trainer: Lesson 1.1 Homework \(Homework\)](#)

Do you want to **Modify** the resource before you assign it, or to **Add** it to an assignment directly?

Modify Add

2. Select **Add** to assign PMT (or ISE)
(For more information about Modifying assignments, see the next section).

Add Activity

Assignment name:

Student instructions:

Resource: [Personal Math Trainer: Lesson 1.1 Homework \(Homework\)](#)

Randomize questions: Yes

Class:

Group:

Available Students

Students in Assignment

Student, Student 1
Student, Student 10
Student, Student 17
Student, Student 19
Student, student 13
Student, student 21
Student, student 23
Student, student 29
Student, student 30
Student, student 6
Student, Student 18
Student, Student 20
Student, student 10

Available date:

Due date:

Times available:

From: To:

Activity Settings

Allow students to pause the activity: ☒ Yes ☐ No

Allow students to see their answers: ☒ Yes ☐ No

Viewing Results:

Standard set:

Mastery level: % (The default mastery level is 75%)

Adaptive Workflows

Follow an adaptive workflow? ☐ Yes ☒ No

Adaptive Workflow Settings

Workflow Type:

3. Create a name in the **Assignment Name** field.
4. Enter directions in the **Student Instructions** field (optional).
5. Select a class from the **Class** list.
6. Select a group from the **Group** list (optional).
7. Select students to add to the assignment.
8. Choose the **Available Date**.
9. Select the assignment's **Due Date**.
10. If you select a time from the **Times Available** list, then fill in the **From** and **To** entry fields.
11. Set **Mastery Level** (75% is the default).
12. Click **Save** at bottom of page.

Note:

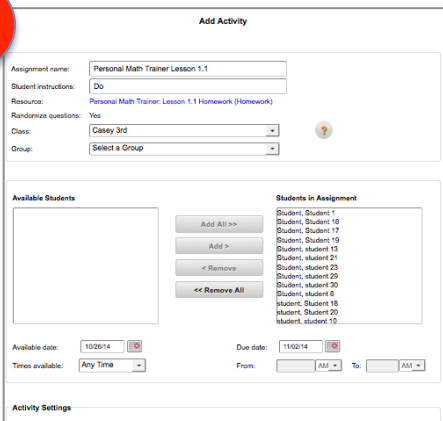
- Set an assignment end time after the expected time of completion. For example, if you go to the computer lab from 2-3, make the assignment end at 3:30 to ensure students don't go over.
- It's key that students hit the "Turn It In" button prior to the end time of the assignment, otherwise their work will be lost.
- If an assignment is due on Tuesday, consider setting the assignment end date and time for Thursday so any absent students have time to do the assignment and students who forget to hit "Turn It In" can be given a second chance.

11/04/14

Assigning the PMT as Assessment or Homework in Knewton Adaptive Mode

The **Knewton Adaptive Mode** can be applied to any PMT Homework or Assessment assignment. It cannot be applied to the ISE. See more details about **Characteristics of PMT Modes** on page three.

1-11



1. Follow steps 1-11 from the previous section.

12. Under **Adaptive Workflows** click YES.

13. Choose one of the two **Adaptive Workflow Settings**:

- **Daily Intervention and Enrichment** or
- **Personal Study Plan**
- See below for description of both

12

Adaptive Workflows

Follow an adaptive workflow?

☒ Yes ☐ No

13

Adaptive Workflow Settings

Workflow Type:

Select Workflow Type

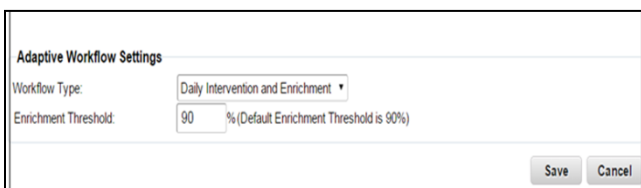
Select Workflow Type

Daily Intervention and Enrichment

Personal Study Plan

Save

Cancel



Daily Intervention and Enrichment Workflow

- Assign this adaptive workflow when you want students to receive a warm-up prior to the assignment, and high-achieving students to receive an enrichment assignment.
- This pathway provides students with a warm-up composed of prerequisite skills or prior grade level skills that have been identified by Knewton. Students receive it prior to the pre-built assignment to set them up for success on the PMT assignment you've given them.
- Students must complete this warm-up prior to completing the pre-built assignment.
- If their performance on the pre-built assignment meets the enrichment threshold for the assignment, they will be given an additional enrichment exercise that consists enrichment activities.

Adaptive Workflow Settings

Workflow Type: Personal Study Plan

Prescription Mastery Threshold: 80 % (Default Prescription Threshold is 80%)

Save Cancel

Personal Study Plan

- Assign this adaptive workflow as support for students that struggle with the skills and standards being taught in that particular assignment.
- A Personal Study plan will be assigned as intervention to students who do not meet the **Prescription Threshold** set by the teacher for the pre-built assignment.
- Students will then receive a re-assessment after they complete the intervention.

V. MODIFYING AND CUSTOMIZING PMT ASSIGNMENTS

NOTE: Modifying or Customizing assignments is possible through the **Workflow Editor**. Once a PMT assignment is modified or a customized assignment is created, you can no longer assign it in Knewton Adaptive Mode.

Pathway to Modify

Personal Math Trainer: Lesson 1.1 Homework (Homework)

CA Go Math!, Grade 3, Unit 1 : Whole Number Operations, Chapter 1 : Addition and Subtraction Within 1,000, Lesson 1 : Algebra - Number Patterns

Practice on the homework exercises in a lesson

Standards: 1

Assign Schedule

Assign

Resource Option

[Personal Math Trainer: Lesson 1.1 Homework \(Homework\)](#)

Do you want to **Modify** the resource before you assign it, or to **Add** it to an assignment directly?

Modify Add

1. Locate the PMT and select **Assign** (see section III).
2. Select **Modify**.
3. Use the **Workflow Editor** to modify.

Workflow Editor — Book

Book Standard New Exercise

? Save

Book: HMH Go Math Grade 3

Unit: Unit 1. Whole Number Operations

Chapter: 1. Addition and Subtraction Within 1,000

Lesson: 1.1. Number Patterns

Objective: N/A **DOK:** All

Exercises: List by

1.1.1 Share and Show Question
1.1.2 Share and Show Question
1.1.3 Share and Show Question
1.1.5 Share and Show Question
1.1.7 Share and Show Question
1.1.8 Problem Solving Question
1.1.9 Problem Solving Question
1.1.10 Problem Solving Question
1.1.11 Problem Solving Question

Assignment Title: Lesson 1.1 Homework

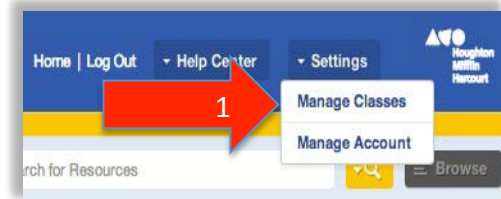
Assignment Type: Homework Activity

9 Exercises in Assignment

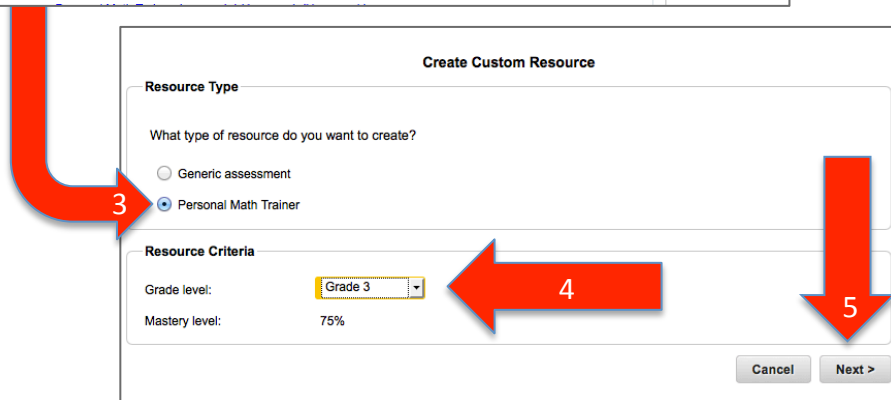
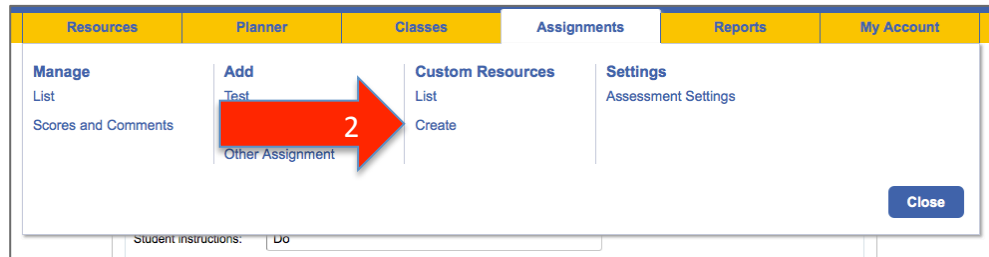
1.1.1 Share and Show Question
1.1.2 Share and Show Question
1.1.3 Share and Show Question
1.1.5 Share and Show Question
1.1.7 Share and Show Question
1.1.8 Problem Solving Question
1.1.9 Problem Solving Question
1.1.10 Problem Solving Question
1.1.11 Problem Solving Question

View Edit Preview

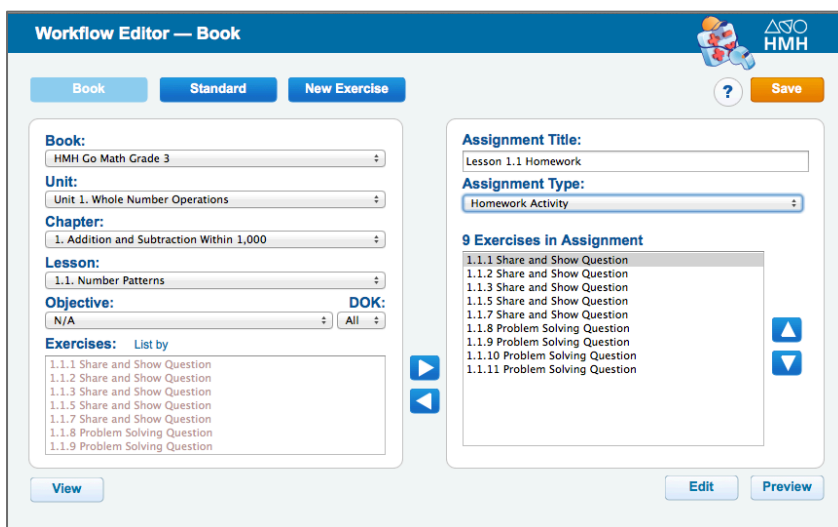
Pathway to Customize



1. Select **Manage Classes** under **Setting**
2. Select **Custom** under **Assignments**
3. Select **Personal Math Trainer**
4. Select **Grade**
5. Select **Next**





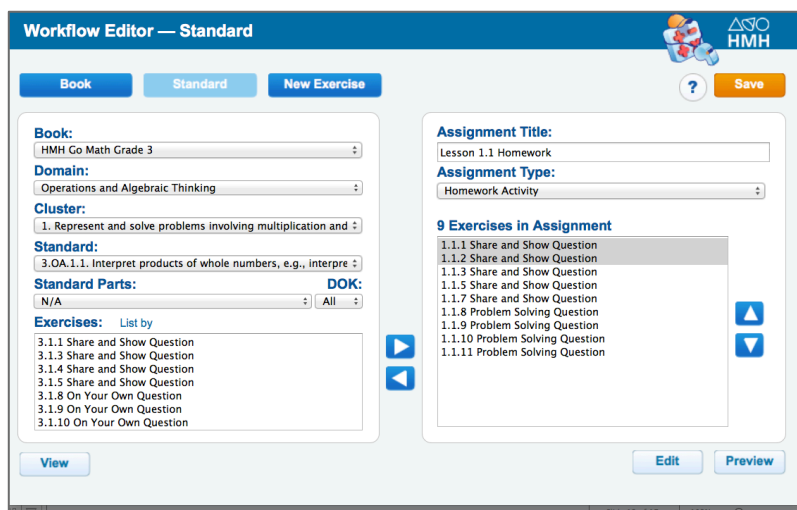
Using the Workflow Editor





Add or Delete by Book

(skip 1-5 if modifying and just need to delete question from the assignment)

1. Select **Book** icon.
2. Select Grade under **Book**.
3. Select **Unit, Chapter, Lesson**.
4. Preview specific Exercise (question) by selecting question then **View**.
5. Add Exercise(s) (questions) by selecting exercise(s) then clicking on .
6. Delete **Exercises in Assignment** by selecting exercise(s) and clicking on .
7. Select **Preview** to preview Assignment.
8. Click **Save** at top right.

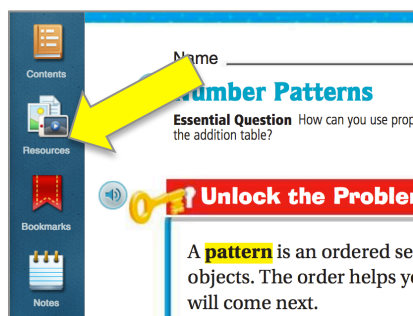


Add or Delete by Standard

1. Select **Standard** Icon.
2. Select Grade.
3. Select **Domain, Cluster, Standard**.
4. Preview specific Exercise (question) by selecting question then **View**.
5. Add Exercise(s) (questions) by selecting exercise(s) then clicking on .
6. Delete **Exercises in Assignment** by selecting exercise(s) and clicking on .
7. Select **Preview** to preview Assignment.
8. Click **Save** in top right when finished.

VI. STUDENTS ACCESSING PMT

Students can access the PMT from the Student Dashboard in three different ways



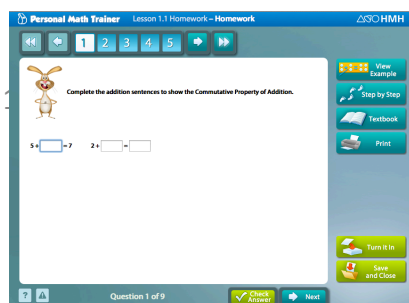
Student Edition eBook

- The student edition eBook must be assigned to **Student Library** when a teacher sets up a class.
- The PMT can be accessed behind the **Resource** icon.
- Through the student edition eBook the PMT is in **Practice Mode** and will only be scored for the student. Data will not be collected (see page three).
- Student edition eBook is found in My **Library**.



ISE

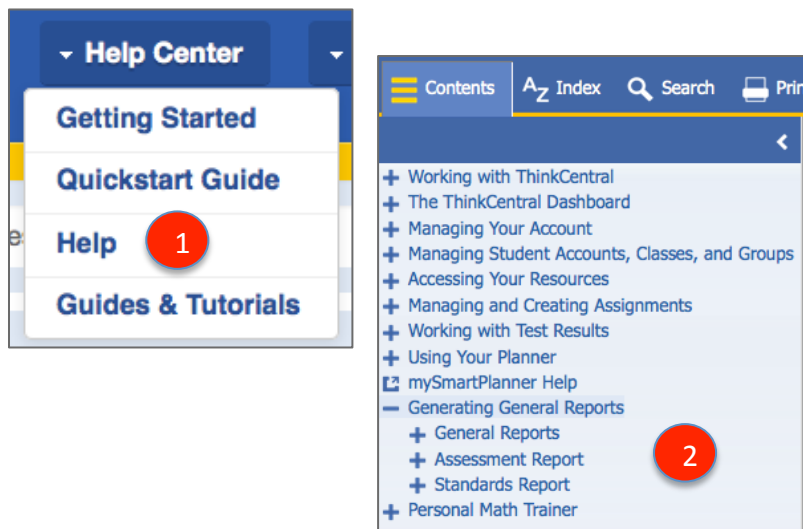
- ISE has to be assigned by teacher.
- Accessed in **Things to Do**.
- PMT is linked to the Elaborate and Evaluate section of the ISE (orange and red bread crumb).



PMT Homework or Assessments (Test and Quizzes)

- Assigned by teacher in either non-adaptive or Knewton adaptive mode.
- Accessed in **Things to Do**.

VII. GENERATING REPORTS AND TRACKING PROGRESS

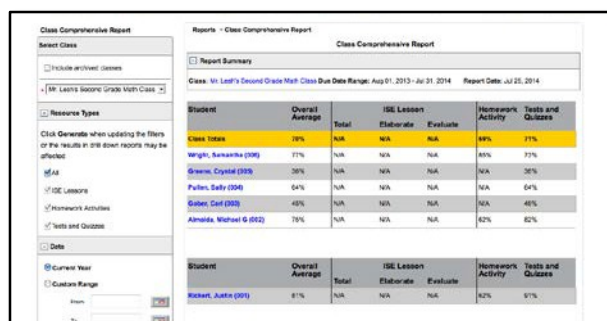


Generating Reports

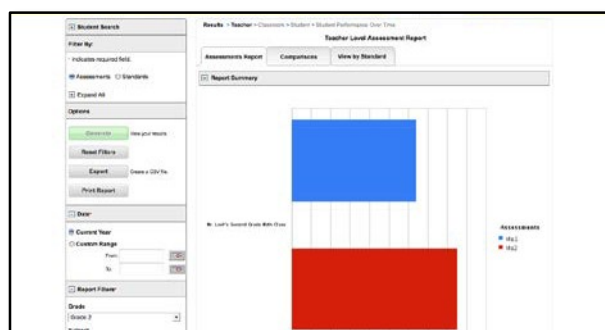
Access help on Think Central to get detailed directions on generating reports, tracking progress and viewing students individual results in PMT.

1. Select **Help** under the **Help Center** on the Dashboard.
2. Select **Generating General Reports**.
3. Choose the type of report that you want to access.

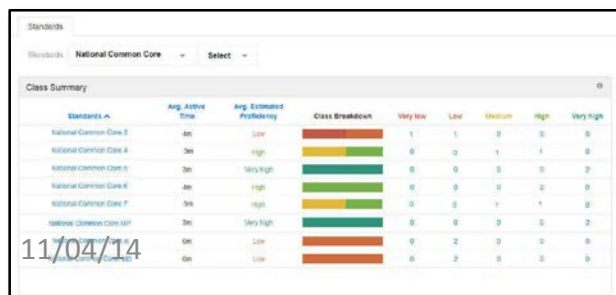
Types of Reports



Class Comprehensive PMT Report: This report shows how students are doing on all PMT assignments. You can choose to view student performance on all assignments, or filter the report to display results for Daily Intervention or Personal Study Plan Assignments.



Assessments and Standards Reports: These reports collect data from the PMT when assignments are given in Assessment/ Testing mode, and can be used for a deeper dive into the data to look for trends, identify standards mastery, and so on.



Knewton Analytics Report: This report displays student proficiency information on PMT assignments.