

# Weighted Knowledge Overview

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# Weighted Knowledge Overview

The ClassMate Weighted Knowledge by Class grade functionality allows a teacher to select categories from a selection of Administrative defined knowledge categories and assign a percentage to each category based on a scale of 100. The total category percentages must equal 100 percent for each class. This option is available in 3 methods as a custom control variable:

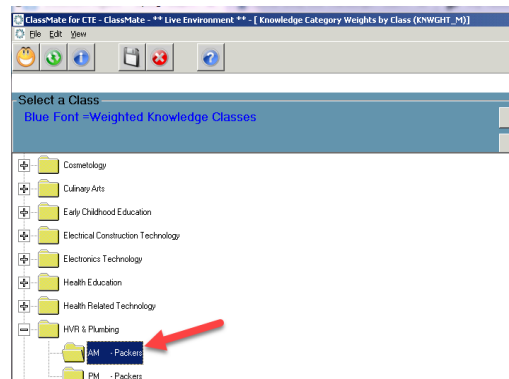
- 1) By Marking Period
- 2) By Course
- 3) By Class

## Getting Started

Go to My Modules > **Admin Grading** > **Knw. Category Weights by Class**

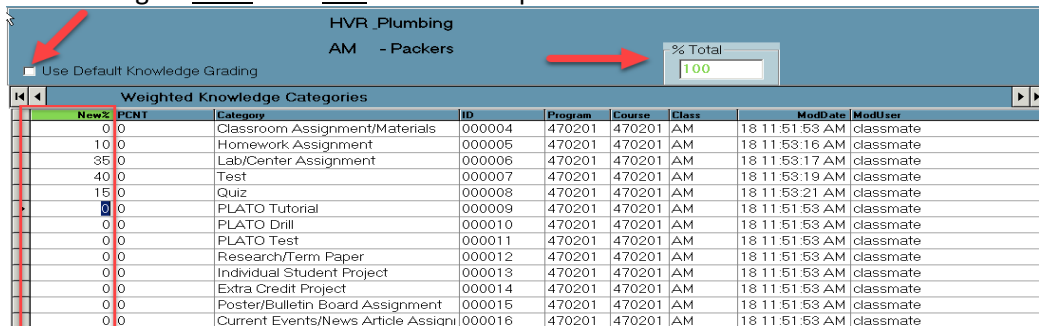
### Step 1:

Open the Program and Course folder for list classes in the tree on the left. Then click to select a Class



### Step 2:

- \* Uncheck the Use Default Knowledge Grading box
- \* Enter Category Weights (percentages) for specific Knowledge Categories in the Green New % column next to the Categories you wish to use.
- \* All combined weights must total 100% when complete



New%	PCNT	Category	ID	Program	Course	Class	ModDate	ModUser
0	0	Classroom Assignment/Materials	000004	470201	470201	AM	18 11 51 53 AM	classmate
10	0	Homework Assignment	000005	470201	470201	AM	18 11 53 16 AM	classmate
35	0	Lab/Center Assignment	000006	470201	470201	AM	18 11 53 17 AM	classmate
40	0	Test	000007	470201	470201	AM	18 11 53 19 AM	classmate
15	0	Quiz	000008	470201	470201	AM	18 11 53 21 AM	classmate
0	0	PLATO Tutorial	000009	470201	470201	AM	18 11 51 53 AM	classmate
0	0	PLATO Drill	000010	470201	470201	AM	18 11 51 53 AM	classmate
0	0	PLATO Test	000011	470201	470201	AM	18 11 51 53 AM	classmate
0	0	Research/Term Paper	000012	470201	470201	AM	18 11 51 53 AM	classmate
0	0	Individual Student Project	000013	470201	470201	AM	18 11 51 53 AM	classmate
0	0	Extra Credit Project	000014	470201	470201	AM	18 11 51 53 AM	classmate
0	0	Poster/Bulletin Board Assignment	000015	470201	470201	AM	18 11 51 53 AM	classmate
0	0	Current Events/News Article Assignm	000016	470201	470201	AM	18 11 51 53 AM	classmate

Each method has specific default grading rules, that when applied, the grading calculation defaults to the traditional knowledge calculation.

Grade Calculation Rules and Calculations

1. By Class:
  - a. If the student does not have an activity that is graded and flagged as required (T or I) in all of the weighted categories for the class, the traditional Knowledge Calculation is applied.
    - i. i.e Student is missing a graded activity in one or more of the weighted categories for the class
2. By Program:
  - a. If the student has an activity that is graded and flagged as required (T or I) in another program, the traditional Knowledge Calculation is applied.
    - i. Example: Student switched Program during the MP i.e. student is currently in Carpentry, but has Welding grades for this MP
3. By Course
  - a. If the student has an activity that is graded and flagged as required (T or I) in another class for the same Course, the traditional Knowledge Calculation is applied.
    - i. Example: Student switched classes during the MP, student is currently in Pre-Algebra period 1, but has Pre-Algebra grades in Pre- Algebra period 2 for this MP
4. Knowledge Activities
  - a. All Knowledge Activities by class type that are not 999.99 and have a required flag of (T)rue or (I)ncomplete are included in the grading calculation
5. Calculations
  - a. Traditional Knowledge Default Calculation:  $(\text{total points earned}/\text{total points}) * 100$
  - b. Weighted Knowledge Calculation: The Marking Period grade is the sum of the Category Weight Calculation for all categories that have been assigned a weight for that class
  - c. Category Weighted Calculation: The Category Weighted Calculation is the earned knowledge activity grade points for the category divided by the Total Knowledge Activity Points for that category, multiplied by the Category %, then multiplied by 100
    - i. Category A:  $(135/150) * .40 * 100 = (.9 * .40) * 100$   
 $= .36 * 100$   
 $= 36$
    - ii. Category B:  $(200/260) * .20 * 100 = (.7692307 * .20) * 100$   
 $= .1538461 * 100$   
 $= 15.38461$
    - iii. Category C:  $(110/175) * .40 * 100 = (.6285714 * .40) * 100$   
 $= .2514285 * 100$   
 $= 25.14285$
    - iv. MP Grade =  $(36 + 15.38461 + 25.14285) = 76.52746 = 77$  rounded