How Mastery Homework Works

- In smartIllinois, some of the homework blocks are "limited attempt item clusters."
- In these clusters, you get 4 tries to answer all the questions in a cluster correctly (to "master" that cluster).
- When you start, you get your initial set of questions. After you submit your answers, you can see which questions you get right or wrong.
  - If you got them all correct, great! You can move on to the next cluster.
  - If you missed some, you watch a video solution for the questions you missed.
    - Then, you get a 2nd try on a new (but similar) set of questions.
- You get 4 tries total to get all the questions in a cluster right. Your grade for the cluster is the score for your best try (100%, if you master it)

6 Steps: How To Do Mastery Online Homework

smart**Illinois** › **Physics 100 Fall 2019**
UIUC

Homework: Week 1a Homework

Deadline: 100% until Sunday, September 1 at 10:00 PM

Warmup: Words to Equations

| 1 | 2 | 3 | 4 |

Limited Attempt Cluster Item | Grade cluster

Which of these equations represent the statements given? Remember that you can use simple numbers to check if the equation makes sense.

1) The circle has twice the area of the square.

(Let A_c be the area of the circle, and A_s be the area of the square.)

- $A_c = A_s + 2$
- $A_c = 2A_s + 2$
- $A_c = 2A_s$
- $2A_c = A_s$

Submit

1. Select answer and submit

2. After answering all questions (4 here), Grade Cluster

Homework: Week 1a Homework

Deadline: 100% until Sunday, January 22 at 11:00 PM ▼

3. You will then be told whether your answers are correct or not.

Warmup: Words to Equations

| ✗ | ✓ | ✗ | ✗ |

Limited Attempt Cluster Item | Grade cluster | Next

Which of these equations represent the statements given? Remember that you can use simple numbers to check if the equation makes sense.

5. When you are ready to try the next set of similar questions, select Next

1) The perimeter of an equilateral triangle is 3 times as large as the perimeter of a square.

(Let P_t be the perimeter of the triangle, and P_s be the perimeter of the square.)

- $P_t = 3P_s$
- $P_t = 3 + P_s$
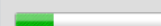- ⦿ $P_t + 3 = P_s$
- $3P_t = P_s$

Submit | Solution

4. You can now view a video solution This solution should help you answer a similar question correctly on your next set

6. You are given an initial score and told how many more attempts you have to obtain threshold (100%). You proceed to next level when you either obtain threshold or run out of attempts.

Limited Attempt Item Cluster
Warmup: Words to Equations
Score Threshold: **100.0**
Remaining attempts: **2**

Why do we do Mastery Homework?

- Homework should be designed to help you learn. Mastery homework allows you to learn and get better during the homework

- For best learning results:
  Do a short review of what we covered this week before starting the homework. Then, try to do the homework questions on your own.
  - Don't be afraid to get questions wrong initially! Watch the solutions to see how to answer the questions you missed.
  - It's better to make mistakes and learn from the solutions than it is to answer a question correctly without a clear idea of what's going on. That learning pays off for the quizzes and exams!