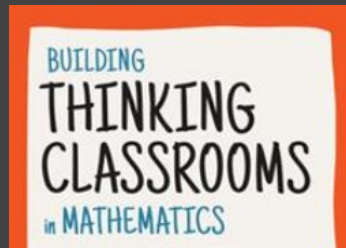


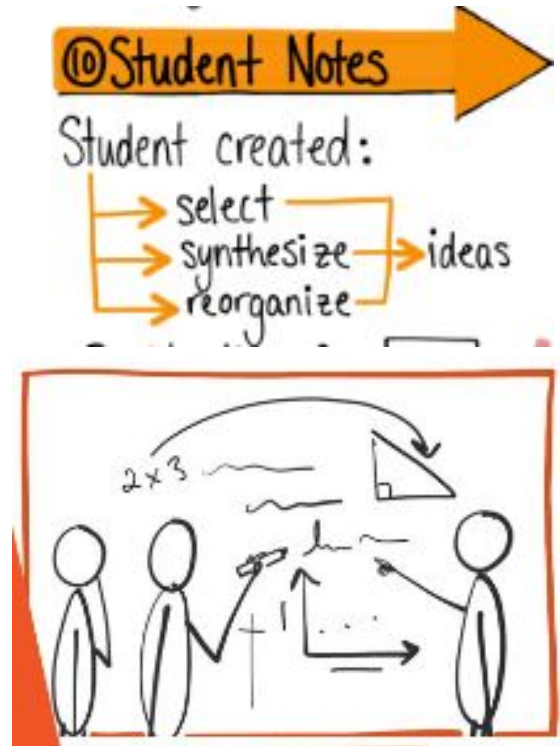
Meaningful Notes

Adapted from the book *Building Thinking Classrooms in Mathematics* and the work of Peter Liljedahl



Meaningful Notes

- Is the act of making notes (not taking notes)
- Helps make your learning more permanent
- Organizes your thoughts
- Is a record of your learning
- Transfers collective learning to individual learning and formal understanding



Source: <https://buildingthinkingclassrooms.com/>

How to do it:

- You will work at the white boards in your groups
- Your teacher will give you examples for **Quadrant A** and **Quadrant B**
- You can each have a marker (not limited to one)

The whiteboard is divided into four quadrants labeled A, B, C, and D in red. Quadrant A (top-left) shows a square with side length \square in and the formulas $A = \square \text{ in} \times \square \text{ in} = \square \text{ in}^2$ and $P = \square \text{ in} + \square \text{ in} + \square \text{ in} + \square \text{ in} = 2 \times \square \text{ in} + 2 \times \square \text{ in} = \square \text{ in}$. Quadrant B (top-right) shows an L-shaped polygon with a top-left side of 3ft, a left side of 6ft, a bottom side of 7ft, and a right side of 4ft. Quadrant C (bottom-left) contains the text "THINGS TO REMEMBER:". Quadrant D (bottom-right) contains the text "EXAMPLE 2: FIND THE AREA AND PERIMETER".

Source: Livestream #3 with Peter Liljedahl (facebook)

How to do it:

- Divide your board into 4 parts
- **Quadrant A:** complete the example
- **Quadrant B:** work the example
- **Quadrant C:** work your own example
- **Quadrant D:** things to remember, or notes to your future forgetful self

EXAMPLE 1: FIND THE AREA AND PERIMETER.

3ft
6ft
4ft
7ft

A B

THINGS TO REMEMBER:

EXAMPLE 2: FIND THE AREA AND PERIMETER

D C

Source: Livestream #3 with Peter Liljedahl (facebook)

Quadrant A:

Complete these examples on variables:

- Given the data or variable, fill in the variable name or an appropriate value
 - number = _____
 - _____ = "hello"
 - is_raining =

Complete these examples on data conversion and branching:

- Convert the data types
 - Change number to a string
 - Change "12" to an integer
- Give an example of selection:
 - pressed = buttons.was _____
 - if _____

Quadrant B:

Write code in Python that will accomplish these tasks.

- Define a variable that stores your name
- Define a variable that stores your age
- Convert the age to a string
- Define a variable that stores the Boolean value if button B was pressed
- Use the variable in a selection

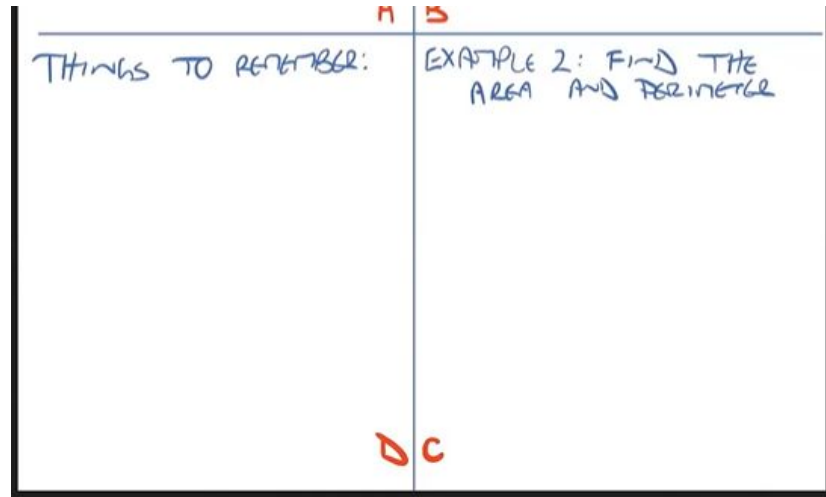
Quadrant C and D:

Quadrant D:

things to remember, or notes to your future forgetful self

Quadrant C:

work your own example of variables, conversion and selection



Source: Livestream #3 with Peter Liljedahl (facebook)