

NEXT-GEN LMS

Enhancing Tools for
Ungrading, Self-Regulation
and Social Learning Dynamics



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Chair - Education Technology and Learning Design Committee (ETLDC)

Erika Ram

Combining the practical application of pedagogical theory and effective teaching and learning principles with information technology, program and course development, graphic and web design, and problem-solving.

Research Interests & Projects: eLearning design practices, educational technologies, agency in technology adoption and use, STEM education, generative AI and education, student self-efficacy, self-motivation and self-regulation.



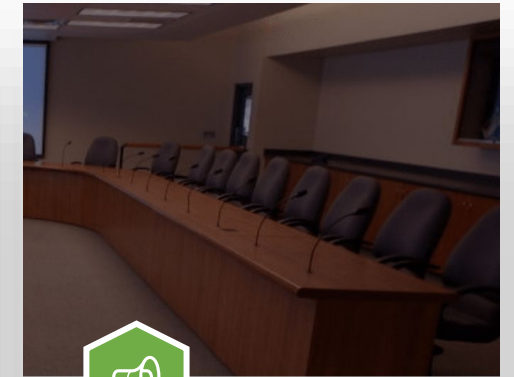
Faculty

- Computing Department
- Computer Essentials
 - Low-code Mobile App Development



eLearning & EdTech Champion

- Develop resources & support
- Act as a liaison & advocate for faculty needs



Chair - EDCO ETLDC

- Provide guidance, recommendations, support & engagement on Educational Technologies.

WORKSHOP GOALS



DEFINE & APPLY
Concepts of ungrading, self-regulation, and social regulation.



SHARE
Experience of integrating these concepts in traditional classrooms and LMS.



PROPOSE
Re-designing traditional LMS assignment tools to better facilitate student learning.

WHY DO WE GRADE?

Warm-up Activity:

Spend a minute thinking about the above question...



WHY DO WE GRADE?

"Think about your students as people who are learning things for purposes. If they are not learning for a grade, why else are they learning?"

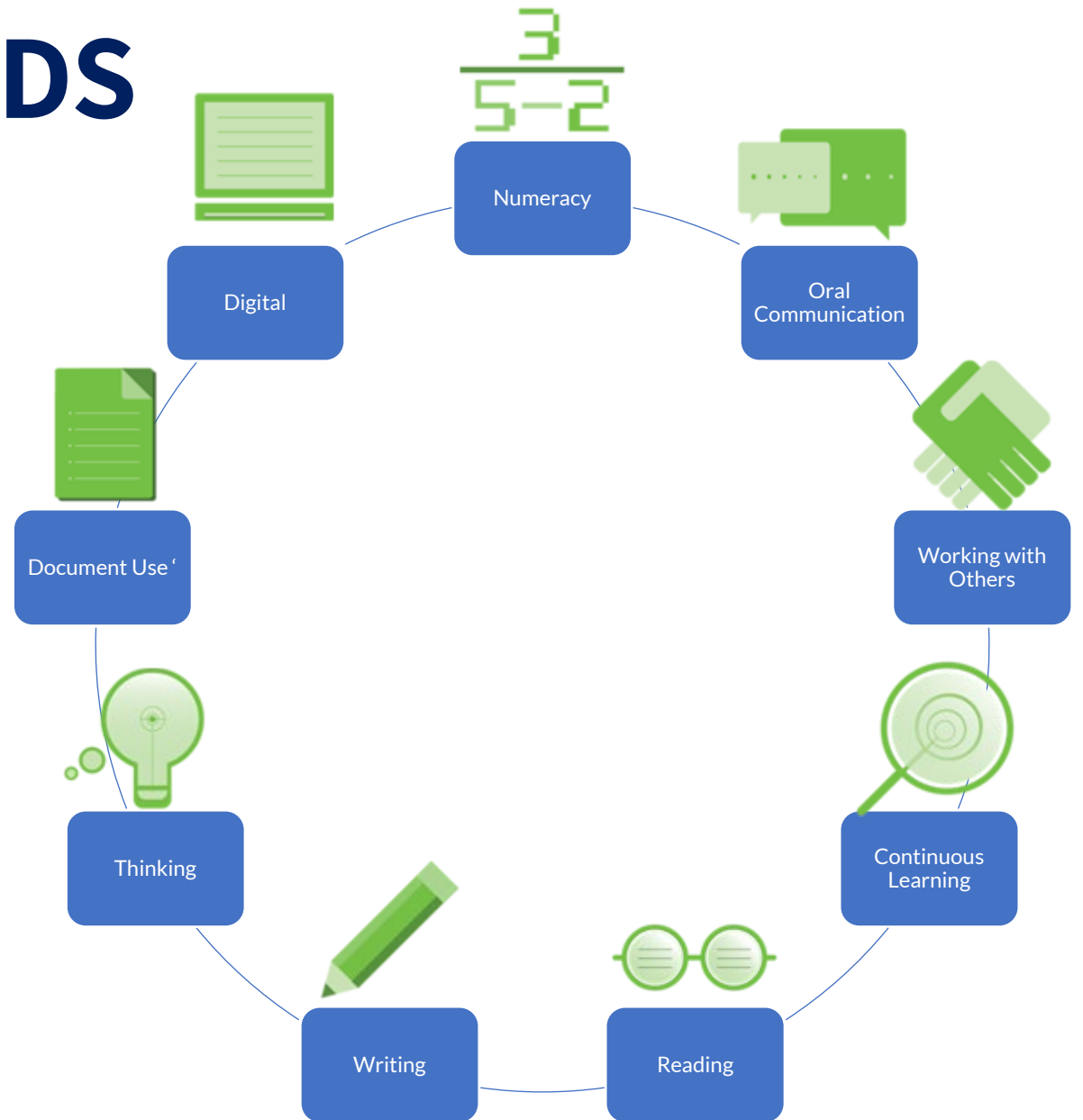
-Susan Blum



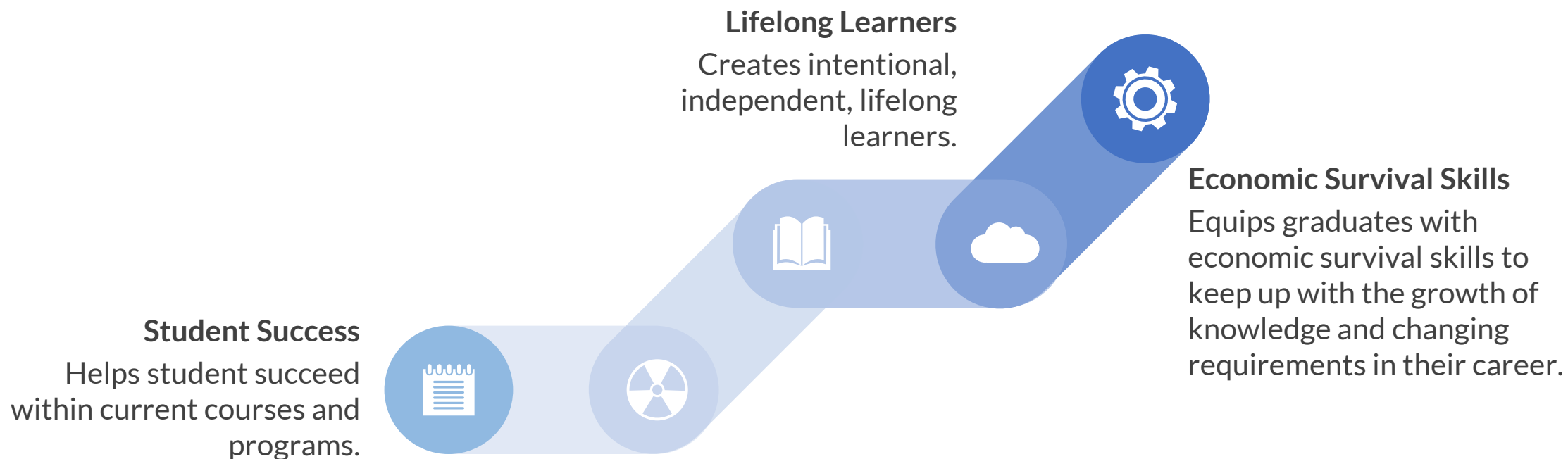
OUR STUDENT NEEDS

Teach our students how to learn through:

- Self awareness & assessment
- Self-regulate
- Self-motivate



OUR STUDENT NEEDS



CONCEPT: SELF-REGULATION

Self-regulation is the control of oneself (thoughts and action), by oneself.

In the context of learning, self-regulation is the conscious planning, monitoring, evaluation, and ultimately control of one's learning in order to maximize it.

“self-regulation of learning involves more than detailed knowledge of a skill; it involves the self-awareness, self-motivation, and behavioral skill to implement that knowledge appropriately.” (Zimmerman, 2002 p. 66)

CONCEPT: SELF-MOTIVATION

Intrinsic Motivation

Doing something because we want to do it....

Characterized by a deep-seated interest in a topic and an understanding of its relevance. Students are motivated to learn or achieve by personal interest or desire for growth.

Extrinsic Motivation

Doing something because we have to do it...

Characterized by factors that are external to the self. Student are motivated to learn by a desire to achieve a desired grade, please others by meeting expectations set by parents, teachers, or factors.

Self-Regulation and Motivation increase with experience.

Novice Characteristics

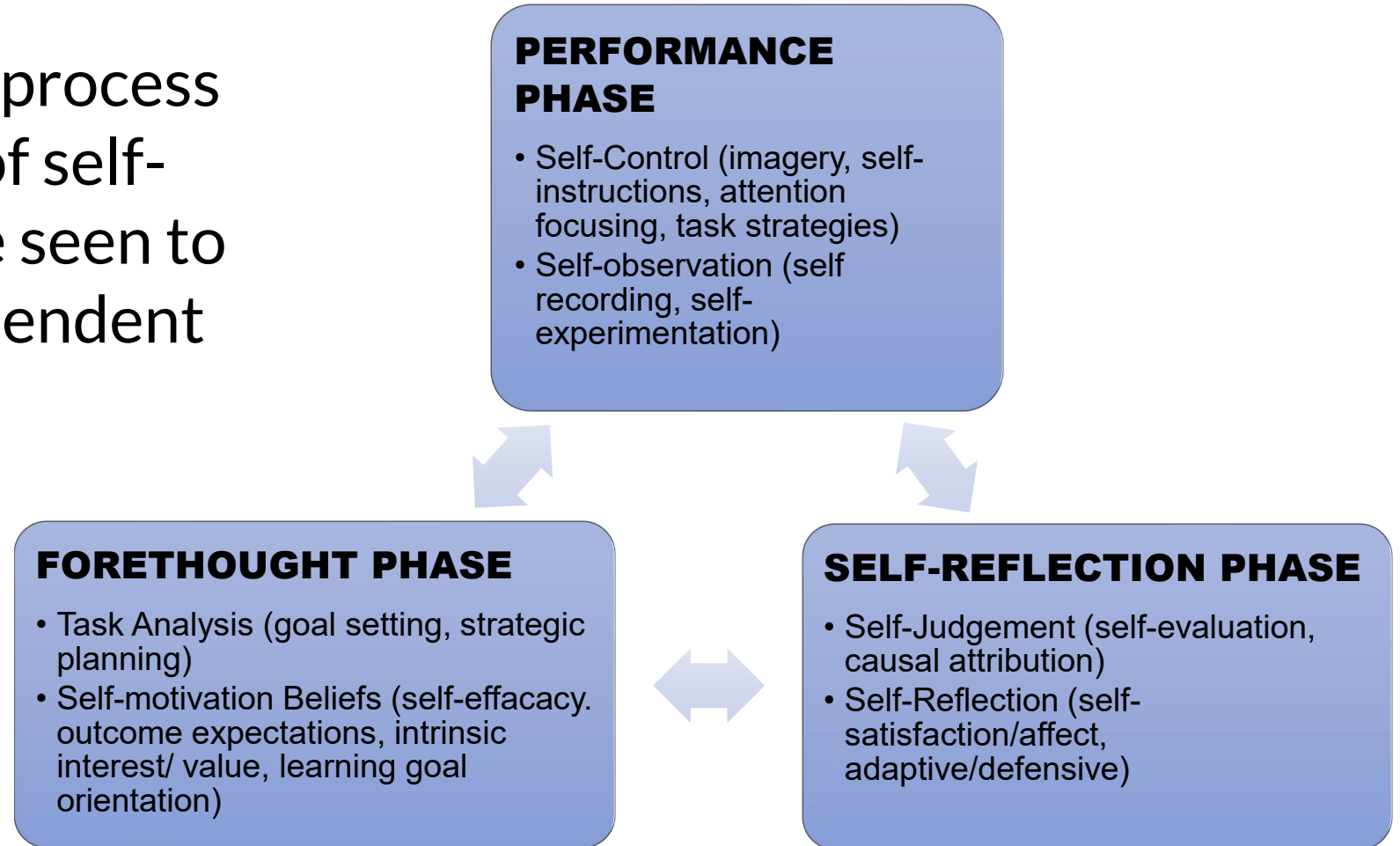
- fails to engage in high-quality forethought
- attempts to self-regulate their learning reactively
- fails to set specific goals or to self-monitor systematically
- tends to rely on comparisons with the performance of others to judge their learning effectiveness or direct feedback
- frames performance in relation to ability attributions rather than strategy/ method attributions

Expert Characteristics

- display high levels of self-motivation and set hierarchical goals for themselves.
- plan learning efforts using powerful strategies and self-observe their effects
- self-evaluate their performance against their personal goals rather than other learners performance
- frame performance in relation to strategy/ method attributions rather than ability attributions

PHASES OF SELF-REGULATION

When considering the process and component skills of self-regulation, they can be seen to fall into three interdependent phases



EXAMPLES OF QUESTIONS TO ADDRESS

Forethought Phase	Performance Phase	Self-Reflection Phase
What kind of a task is this?	Am I sure I know what I am doing?	How well did I achieve my goal?
What is my goal and how will I know I have reached it?	Does my approach to the task make sense?	How well did I avoid sources of interference and stay on task?
How motivated am I to perform the task, and how can I increase my motivation if it's low?	How well are my strategies working?	What approach or strategy worked well or didn't work? Should I change anything next time?
How much time and resources will be necessary?	Am I making good progress toward my goal?	What were the most important points I learned? What am I still having trouble understanding?

FROM INDIVIDUAL TO SOCIAL LEARNING

Learning takes place beyond the confines of the individual mind; it involves social and environmental influences.



FROM INDIVIDUAL TO SOCIAL LEARNING

Self-regulated learning

Individual learners taking metacognitive control of cognitive, behavioral, motivational, and emotional conditions/states through iterative processes of planning, monitoring, evaluation, and change.

Socially shared regulation

Groups taking metacognitive control of the task together through negotiated, iterative fine-tuning of cognitive, behavioral, motivational, and emotional conditions/states as needed.

Co-regulation

Dynamic metacognitive processes through which self-regulation and shared regulation of cognition, behavior, motivation, and emotions are transitionally and flexibly supported and thwarted.

CONVENTIONAL GRADING SYSTEMS

- Inconsistent Meaning of Grades
- Desire for Feedback & Communication
- Side Effects and Unintended Consequences



THE INCENTIVE TO CHEAT

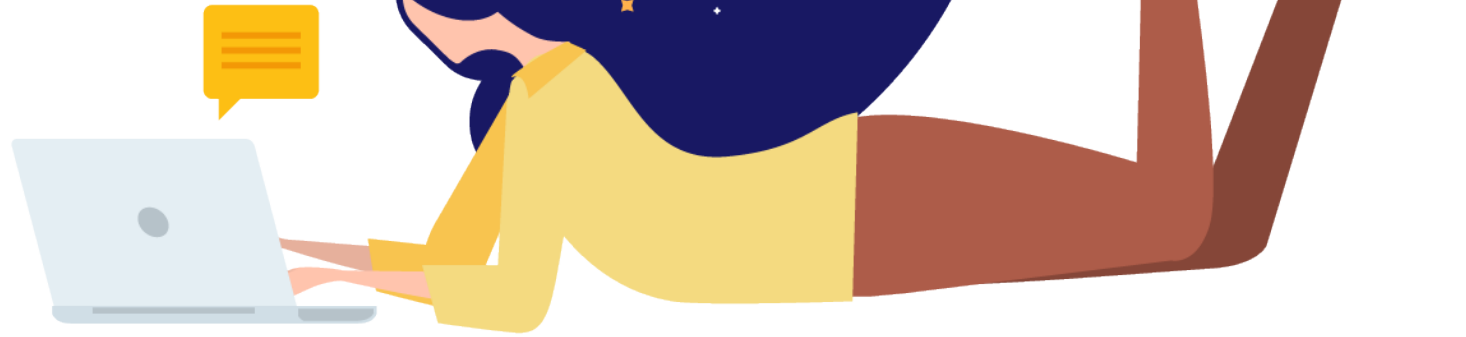
- Extrinsic motivation to achieve a good grade $>$ the intrinsic motivation to learn
- + stress + anxiety
- + easy access to untraceable AI content
- = ????



UNGRADING

An educational approach that emphasizes learning, understanding, and personal growth over numerical grades.

It's classroom paradigm shift that places the focus of education back on what is being learned and why, rather than what is being produced and for whom.



MY APPROACH #1

1. Community of Learning & Support
 1. Metacognition Modules
 2. Learning & Development Plan
 3. Study Skill Inventory
2. Reinforce Self-Regulation, Motivation & Student Progress
 1. Assignment Change Logs
 2. Lab Portfolios



MY FINDINGS - STUDENTS

“I really appreciate your style of instruction and assessment”.

“I like the format and style of the labs. They make me want to improve.”

“I appreciate the chance to fix my problems and learn from them.”

Instructional Surveys went up!

- Methods of evaluating student work were fair and appropriate.
- Sufficient time to cover the amount of material
- Feedback on progress

Increased metacognition skills throughout the course.

APPROACH #2

1. Peer Review Strategies

1. Reduce workload
2. Increase social and co-regulation

2. New forms of Technology

1. Clearer for students
2. Reduce Workload
3. Focus on skill building



NEXT GEN LMS

Feedback Indicators:

- Instead of grades, indicators for if feedback has been left, if there are suggestions for changes, and if approved.
 - Student Side: Pending, Reviewed, Endorsed
 - Instructor Side: Pending, Submitted, Resubmitted, Finalized

Incorporation of exercises in metacognition and self-regulation

- Forethought Phase Questions:
 - Customizable and may include: What is my goal for this assignment, what steps will you take, and how will you know you've reached it? What time and resources will you use? What challenges or unhelpful habits will you avoid?
- Self-Reflection Phase Questions:
 - Customizable and may include: What approach or strategy worked well or didn't work? Should you change anything next time? What were the most important points you learned? What are you still having trouble understanding?

NEXT GEN LMS

Threaded Commenting

- On submissions, threaded commenting to provide students an opportunity to respond and help track progress.

Mark for Peer Review

- Allow other students to view and provide comments
 - All students, assign specific students, or assign random students.

Easy to Access History and Changes

- At simplest, all submissions are viewable on one page.
- Even better! Highlighted changes or document tracking.

Name*
Activity Example

Grade Out Of
7 points | Not in Grade Book | Due Date
M/D/YYYY

Description

Questions Preview

Add Existing | Create New | Total Points 7

Select All | Add | Move To | More Actions

- Pre-Lab
Section
- 1 What is your goal for this assignment? 1 point
Written Response
- 2 What steps will you take (consider time or resources you will use), and how ... 1 point
Written Response
- 3 What challenges or unhelpful habits will you avoid? 1 point
Written Response
- Lab Activity
Section
- 4 Diagnostic Flowchart with Explanations Choose one computer problem (ca... 1 point
Written Response
- Post-Lab
Section
- 5 What approach or strategy worked well or didn't work? What would you ch... 1 point
Written Response
- 6 What were the most important points you learned? What are you still havin... 1 point
Written Response

Availability Dates & Conditions

Always available

Timing & Display

No time limit

Attempts & Completion

1 attempt allowed

Evaluation & Feedback

Auto-publish results
1 result display

Name*
Activity Example

Due Date
M/D/YYYY | Peer Review
Not Peer Reviewed

Description
Assign Randomly
Assign Specific

Questions Preview

Add Existing | Create New | Total Points 7

Select All | Add | Move To | More Actions

- Pre-Lab
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New Written Response Question

Written Response Options

Question Text *

Diagnostic Flowchart with Explanations

1. Choose one computer problem (can be one you've had before, or one common one you've found).
2. Create a flowchart for how you would approach solving that problem considering the rules from 'Getting Started with Troubleshooting' and steps from 'Troubleshooting Methodology'.
3. Annotate or explain any unclear steps
4. Submit in an attached document or image to the Learning Hub.
5. These will be shared & reviewed during next class.

- See attached example, which was created with Visio. You could also use PowerPoint, Word, Canva, another online tool, etc. </content/enforced/965200-41320.202330/Week 4 Activity 3 Example.pdf>

Enable HTML Editor for learner responses

Allow learners to insert images and add attachments

Points *

1

Save Cancel

Diagnostic Flowchart with Explanations

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CURRENT

New Written Response Question

Written Response Options

Question Text *

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Enable HTML Editor for learner responses

Allow learners to insert images and add attachments

Include in Peer Review

Enable Tracked Changes

Save Cancel

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IDEAL