



GROWTH & GOALS

Welcome!



I pay respect to the Algonquin people, who are the traditional guardians of this land.

I acknowledge their longstanding relationship with this territory, which remains unceded.

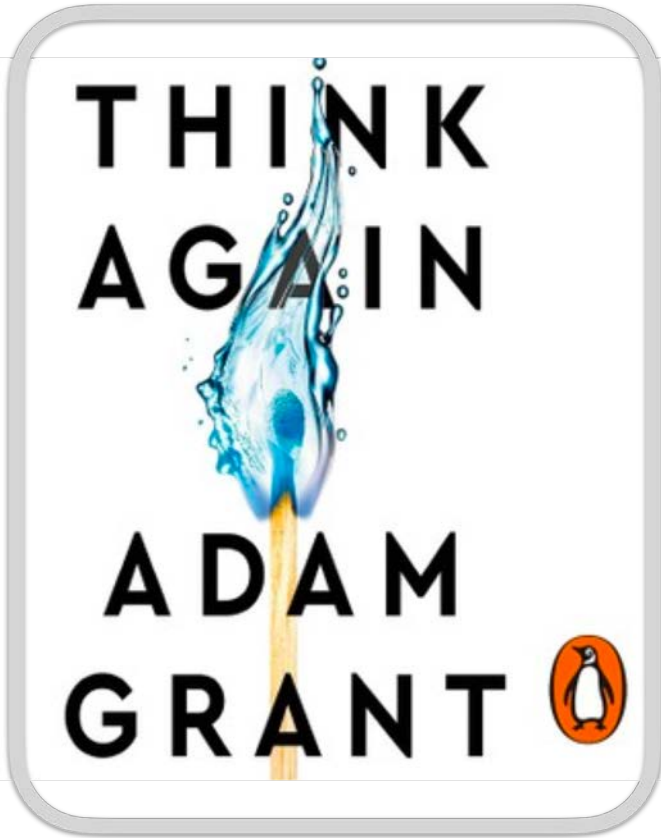
I pay respect to all Indigenous people in this region, from all nations across Canada, who call Ottawa home.

I acknowledge the traditional knowledge keepers, both young and old.

And I honour their courageous leaders: past, present, and future.

Reskilling needs





In his book, Adam Grant talks about the **power of knowing what you don't know.**

About having the confidence to approach situations ready to succeed, while **staying humble** enough to ask questions, seek help... to **stay curious.**

And it takes a lot of **confidence to stay curious.**



We set out to help students address key learning issues:

1. Identifying what to learn and how to learn effectively
2. Managing course and life goals and demands



The Growth & Goals Module is designed to help students become more strategic, efficient, and effective learners



Did you know? Adjectives have to be in this order:
Opinion-size-age-shape-colour-origin-material-purpose

A

**Canadian
white
delightful
great
snowfall**



A

**delightful
great
white
Canadian
snowfall**



GROWTH & GOALS

Connected
Scalable
Explicit



Integrated in courses,
aligned with **learning
outcomes**



Meets or exceeds
accessibility
requirements



Open Education Resource
Easy to integrate quickly
Easy to adapt

Course-integrated

OPEN LIBRARY | PRESSBOOKS

Growth & Goals: a course-integrated module to better equip students with learning skills

Alison Flynn; Elizabeth Campbell Brown; Emily O'Connor; Ellyssa Walsh; Fergal O'Hagan; Gisèle Richard; and Kevin Roy

Download this book

This module is designed to be adapted by course instructors to their own context. This integration benefits especially from tailoring the specific course's learning outcomes, study strategies, and support. Instructors should make their own copy of the module's Google Drive activities so that their students' data is collected only by them. We also encourage instructors to assign a grade for students who complete the module as even a 1% bonus leads to high completion rates.

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READ BOOK

Course-independent

OPEN LIBRARY | PRESSBOOKS

Growth & Goals: a module for any context, designed to develop learning skills

Alison Flynn; Elizabeth Campbell Brown; Emily O'Connor; Ellyssa Walsh; Fergal O'Hagan; Gisèle Richard; and Kevin Roy

READ BOOK

This module can be used by anyone in any context and is intended to help you become a more proficient learner, whether in academic, physical, artistic, or other contexts. As an open education resource, it can also be adapted.

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brightspace by D2L

Module de croissance et d'objectifs | Growth & Goa...

Course Admin Classlist Content Announcements Grades Zoom Yuja Ouriginal Class Progress

Search Topics

Growth & Goals Module (EN)

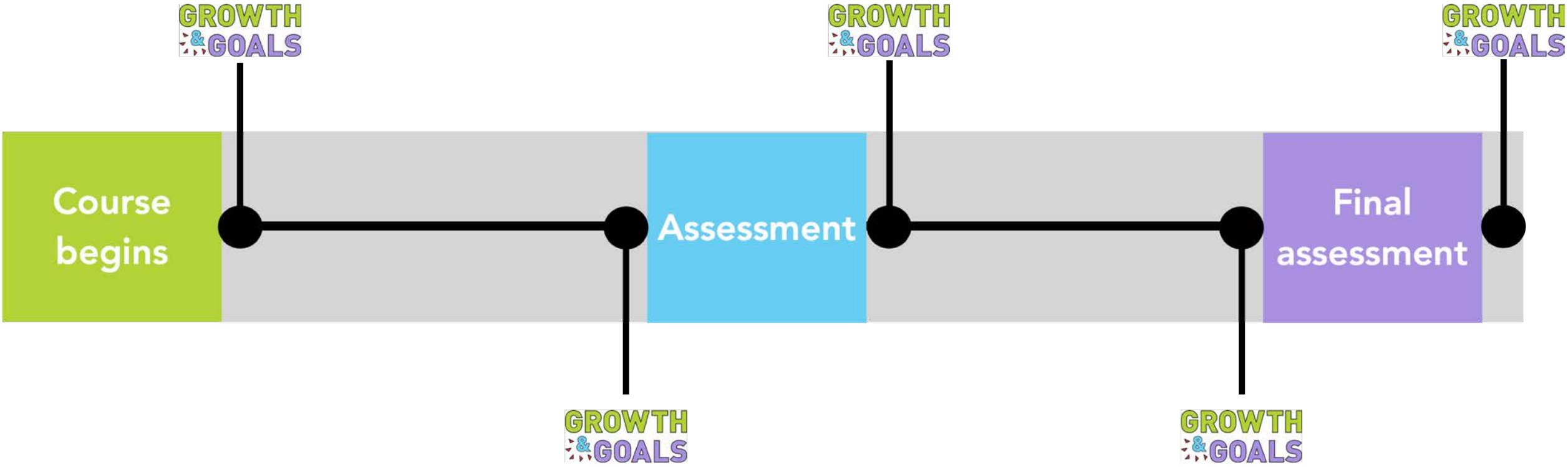
Add dates and restrictions...

The Growth and Goals Module is designed to empower students with the skills to thrive and continually adapt in today's dynamic world. Over the course, students will develop skills of metacognition - identifying what you know, don't know, and how to learn - using 3 main pillars: developing a growth mindset, Self-Regulated Learning, and developing mindfulness skills. You will use the module to set, plan, and execute a course of the semester - we've found that students' metacognitive skills improved by engaging with the module for a single semester!


Note: Hover over italicized words to see their definition!

Upload / Create Add Activity Bulk Edit

- Overview
- Bookmarks
- Course Schedule
- Table of Contents (36)
- Instructions pour les éducateurs // (2)
- Instructions for Educators

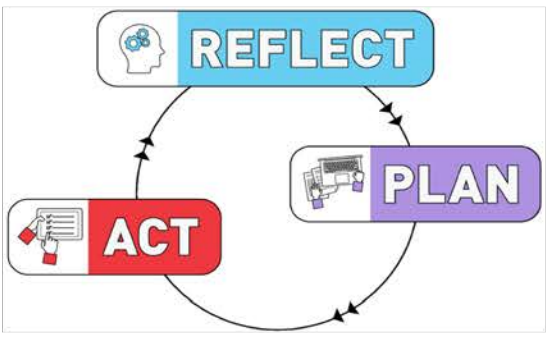


Core concepts




The icon for Metacognition features a profile of a human head in white with a yellow brain inside. The brain is surrounded by various educational and technological symbols: a computer monitor, a gear, a globe, and a book. The background is a light blue circle with dashed lines.

Metacognition



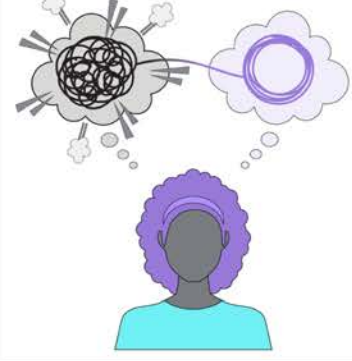
The icon for Self-regulated learning shows a circular process with three stages: REFLECT (top, blue box with a head icon), PLAN (right, purple box with a laptop icon), and ACT (bottom, red box with a hand holding a pen icon). Arrows indicate a clockwise cycle between these stages.

Self-regulated learning



The icon for Mindsets depicts a person with purple hair and an orange shirt. Above their head are two thought bubbles: a blue one labeled "FIXED-MINDSET" and a yellow one labeled "GROWTH-MINDSET".

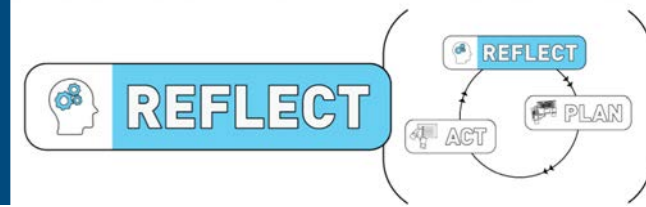
Mindsets



The icon for Mindfulness shows a person with purple hair and a blue shirt. Above their head is a thought bubble containing a purple circle with radiating lines, and another thought bubble containing a black scribble. The background is a light blue circle with dashed lines.

Mindfulness

Beliefs about learning (T/F?)



When it comes to learning, metacognition can be just as important as intelligence

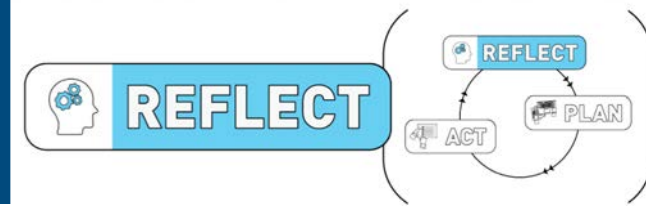
A student's failure to learn is due to their limitations in intelligence

Individuals who set specific goals are more likely to achieve those goals than individuals who do not set goals

The professor is responsible for teaching me and making sure I learn

Strong learners seek out help from others

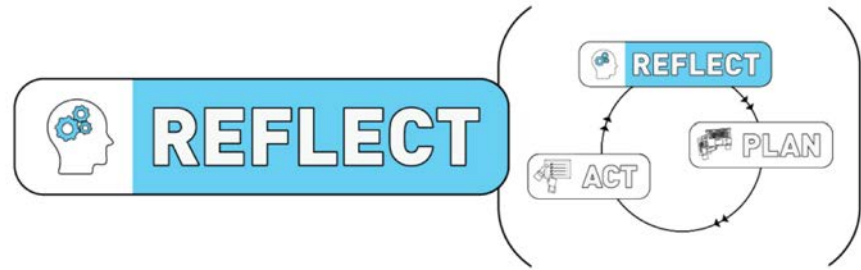
Identifying tendencies



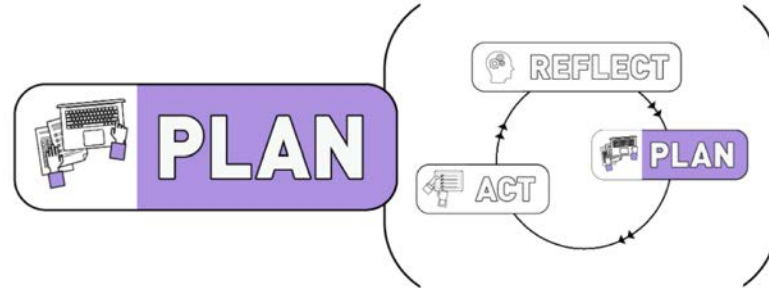
The following list describes how these students have prepared for the upcoming final exam and their feelings about it. Do you see any similarities between yourself and these students?

- Cram for a few hours before the exam
- Cannot gauge their academic preparation accurately
- Think they are not good at this subject
- Very defensive about their study methods (these methods worked in high school!)
- Do not ask for help
- Are afraid of looking stupid
- Do not find extra materials because they already have too much to learn
- Have little self-confidence for achieving success

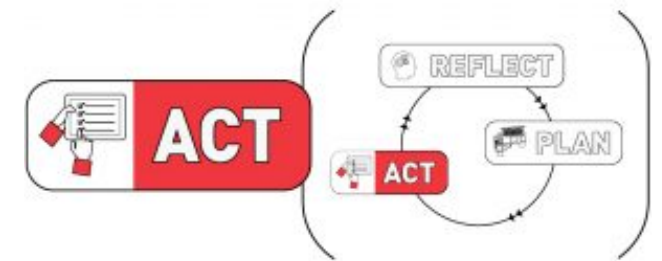
Metacognition



- What do you know/not know about the course's prior knowledge learning outcomes?
- What do you know/not know about the course's learning outcomes?



- Decide what to do for your learning



- How are you progressing toward your goals and the intended learning outcomes?
- What are you doing to achieve your goals?

Rate your abilities on the prior and course LOs

Rate your knowledge or skill for the following learning outcomes:

- Quickly calculate the formal charge on an atom (<5 seconds)
- Justify a reaction mechanism using causal reasoning and the data provided
- Demonstrate group facilitation skills

ADAPT to your course/context

What is the basis for your ratings?

Intuition/Feeling

Read over the
section/chapter/slides

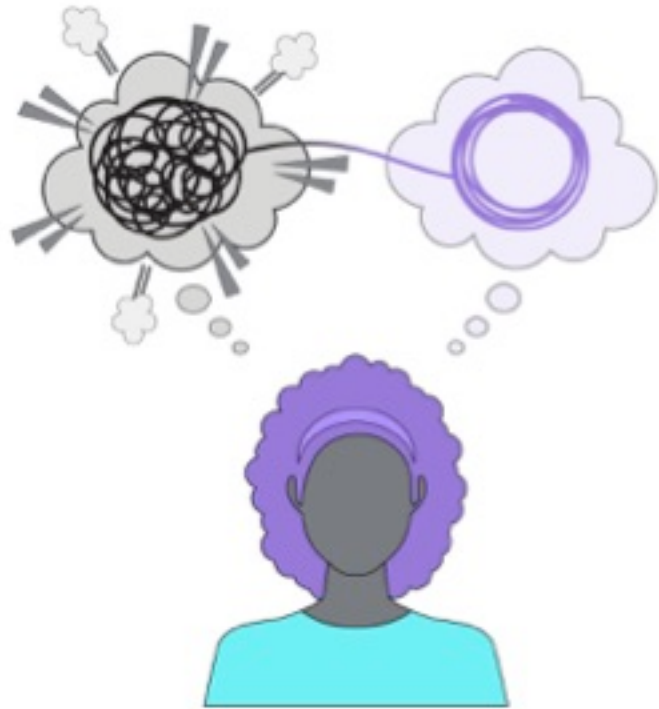
Summarized
section/chapter/slides

Explained key ideas to
someone else and checked
their understanding

Tested myself with problems
I've never seen before

Worked with classmates to
test each other

Mindfulness



Mindfulness is a practice that allows you to develop **present-time awareness** of thoughts and feelings,

and accept those thoughts and feelings as natural products of your mind that

you can observe and let pass without becoming entangled, distracted, and off track.

How present are you?



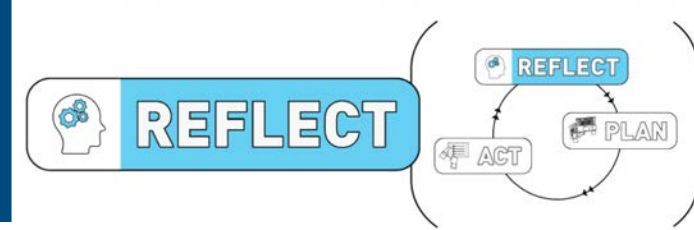
I could be experiencing some emotion and not be conscious of it until some time later.

I break or spill things because of carelessness, not paying attention, or thinking of something else.

I find it difficult to stay focused on what's happening in the present

I forget a person's name almost as soon as I've been told it for the first time.

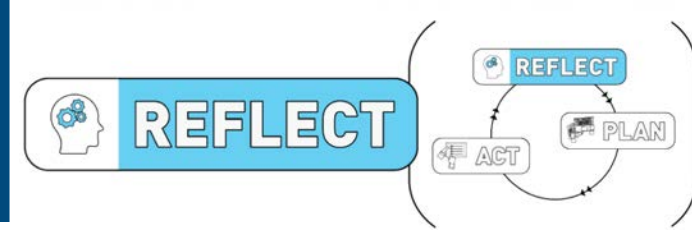
Mindsets



« In a **fixed** mindset students believe their basic abilities [...] are just fixed traits...

In a **growth** mindset students understand that their talents and abilities can be developed... »

-C. Dweck, 2006



Decide to what extent you disagree or agree with each statement:

- My ability in this subject is something I cannot change
- When a problem gets really hard, I give up
- I'm not a [subject] person

More about mindsets



Most people hold different mindsets in different areas of their life

A challenging situation will bring out a student's mindset

A growth mindset is predictive of better academic outcomes

Mindset interventions have been effective, especially for at-risk groups

Instructor's mindset matters too!

Changing your fixed mindset voice

How you interpret challenges, setbacks, and criticism is your choice.



You can interpret challenges, setbacks, and criticism in a fixed mindset as signs that your talents and abilities are lacking and can't be changed.

Or you can interpret challenges, setbacks, and criticism in a growth mindset as signs that you need to ramp up your strategies and effort, stretch yourself, and expand your abilities.

So as you face challenges, setbacks, and criticism, listen to the fixed mindset voice and...

Talk back
with a
growth
mindset
voice!



The importance of failure

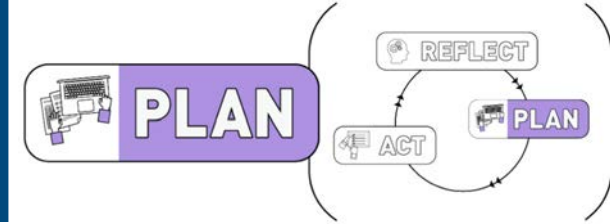
- Success comes through effort and failure
- As you watch [this video](#), consider the ways you can relate this famous failure to your own experiences with effort, failure, and success



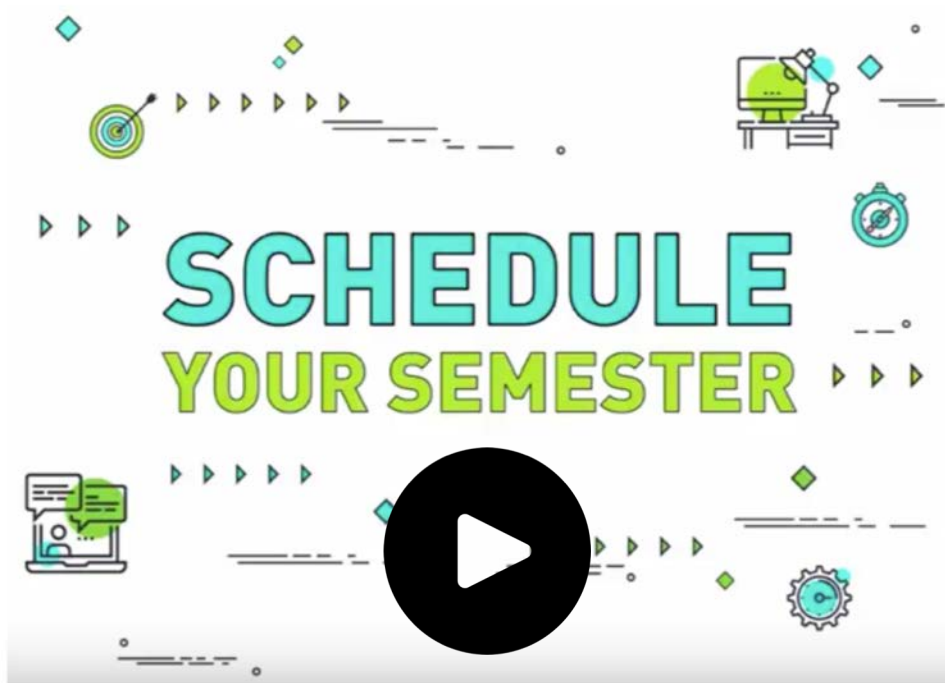
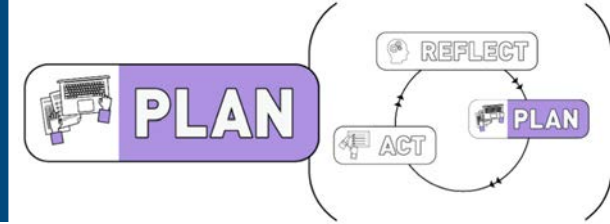
#DysonInvents #InsideDyson

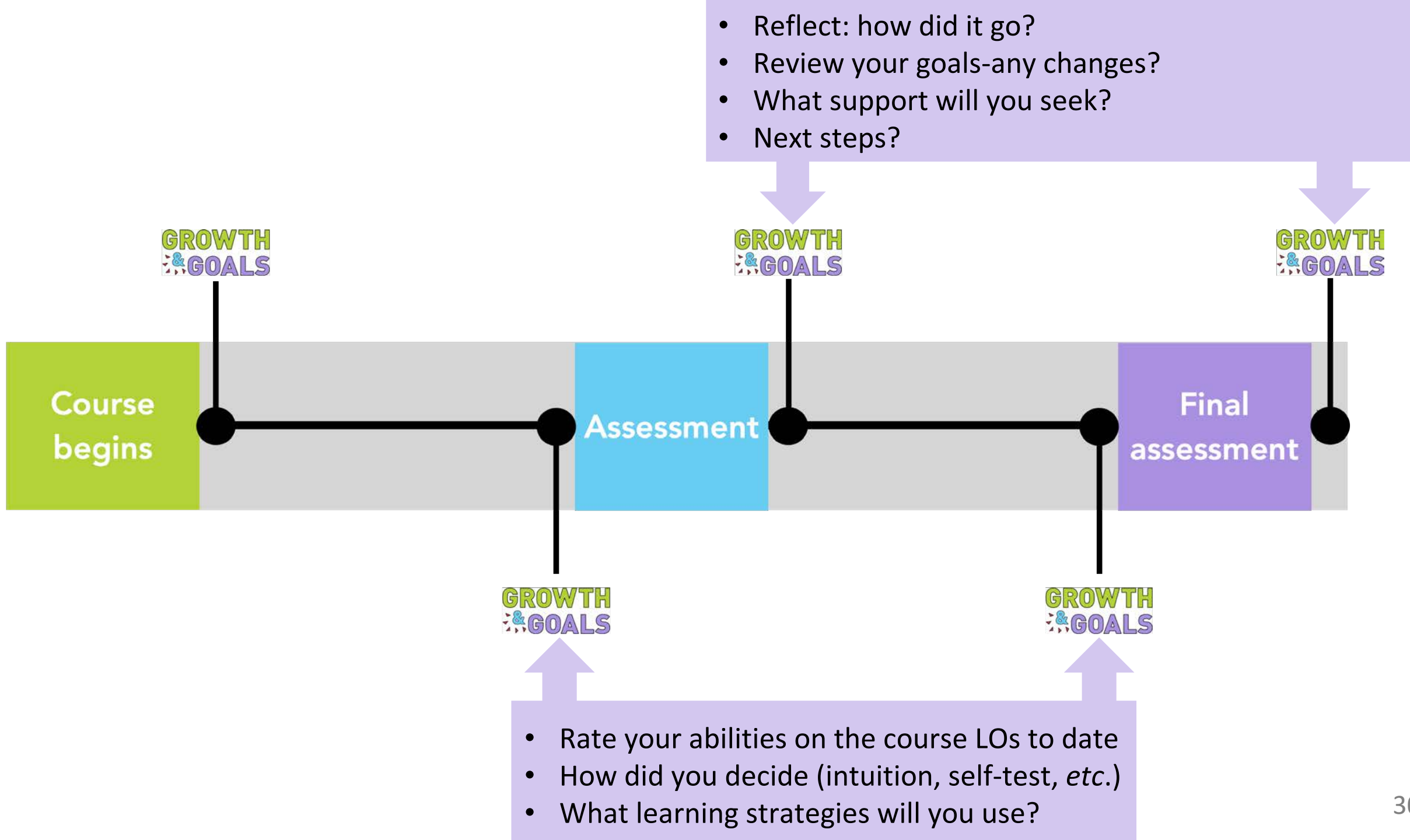
The Dyson story: James Dyson speaks about our approach to engineering

Plan Phase: SMART Goals



Plan Phase: schedule and support







>6000

Students have used the tool at >10 institutions



80%

First time training



>75%

Complete module with small incentive



Metacognitive skills increase quickly



95%

Using concepts in another course

**GROWTH
& GOALS**

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How much work is involved for educators?



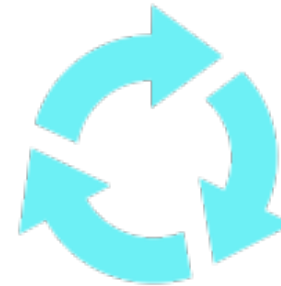
1 – 4 hours
Adapt existing template
No major course changes



Instructions and
support provided



Results export
to spreadsheet



Reuse in
future years

Currently, we have a student working on the team who can adapt the module to your syllabus!

Valuing the module in the course

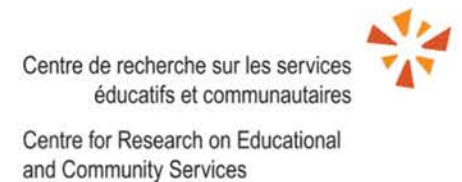
Give a percentage of the final grade

Add questions about the module to your assessments in the course, without asking personal questions

Discuss the module and results in your course (anonymously) and give your recommendations

Invite a student to share their experiences
We can suggest some names!

Development and evaluation teams: students are key members



Social Sciences and Humanities
Research Council of Canada

Conseil de recherches en
sciences humaines du Canada

