

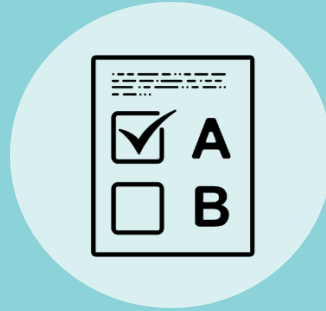
Backward Design



Backward Design



Begin with the end
in mind



Develop assessment
plan



Plan learning
activities

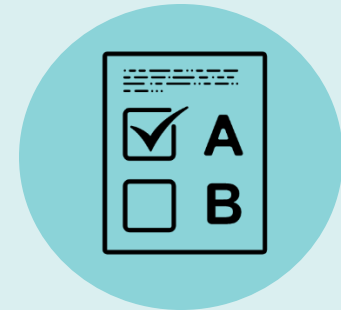
Traditional Model



Begin with learning
objectives



Plan learning
activities

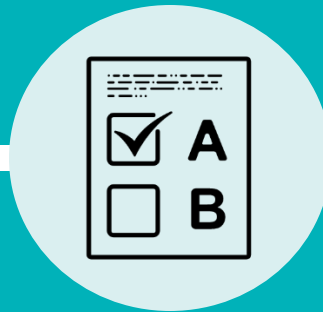


Develop a plan to assess
competencies

Backward Design Steps



#1
Identify
Desired
Results



#2
Determine
Assessment
Evidence



#3
Plan Learning
Experiences

Step 1:

Identify Desired Results

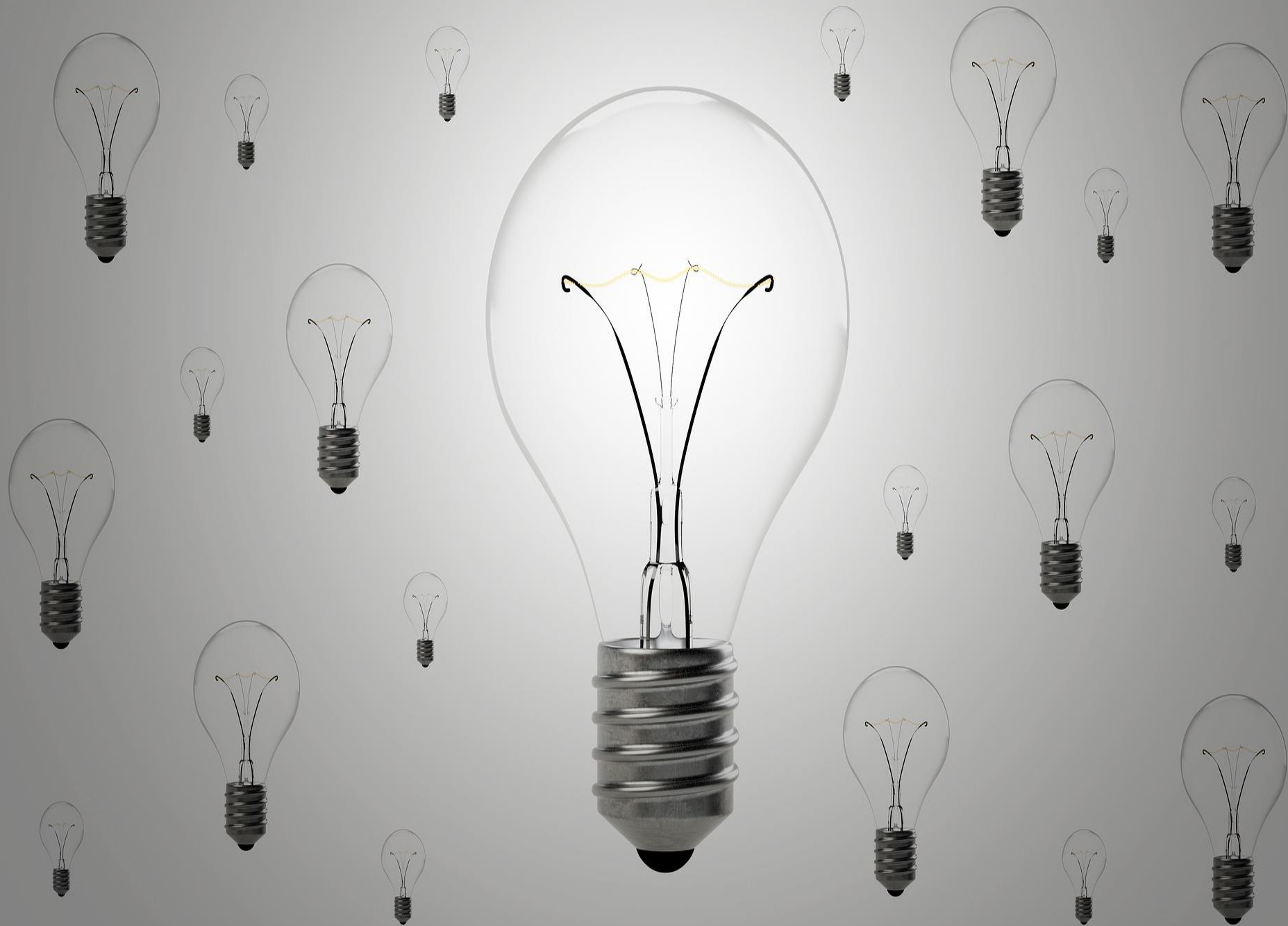


What should the students know,
understand, and be able to do?

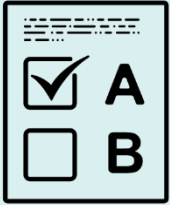


R**E****S****U****L****T****S**

The word "RESULTS" is displayed in a stylized font where each letter is contained within a colored oval. The letters are: R (blue), E (pink), S (orange), U (light blue), L (light pink), T (green), and S (yellow). Surrounding the letters are several curved arrows in various colors (blue, orange, light blue, pink, green, brown) pointing in different directions, suggesting a process or flow.



Step 2: Determine Assessment Evidence

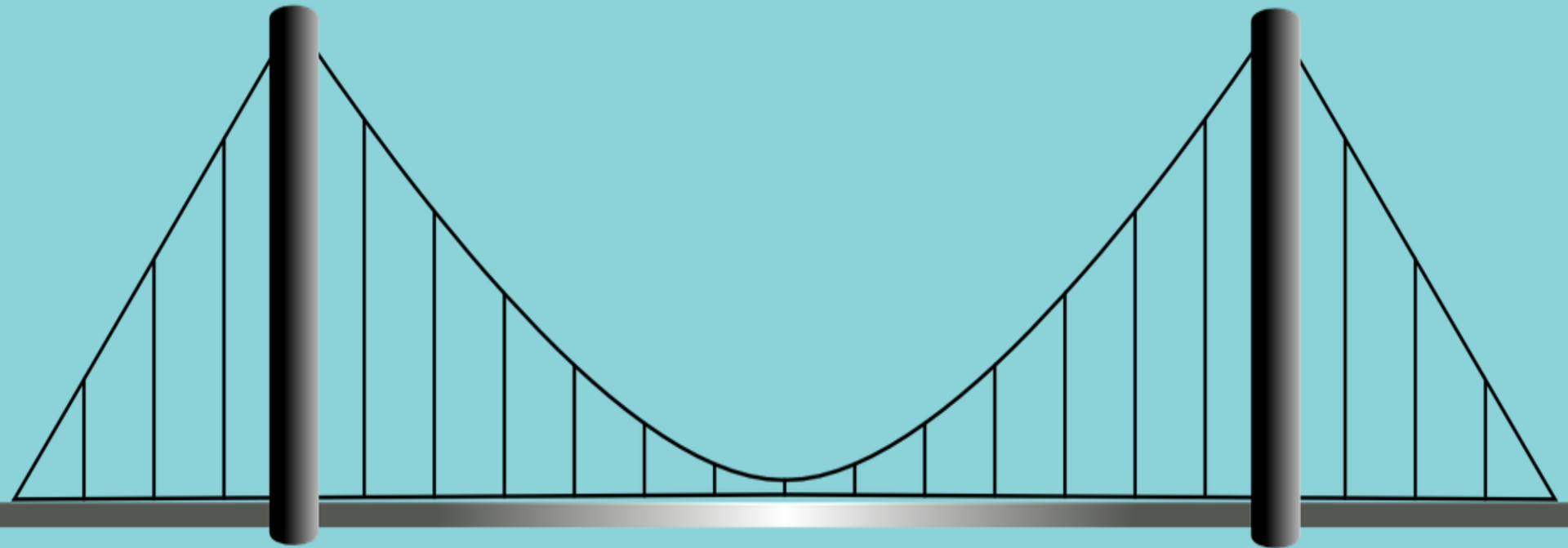


How will we determine if the desired results occurred?



Big Idea / Goals

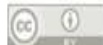
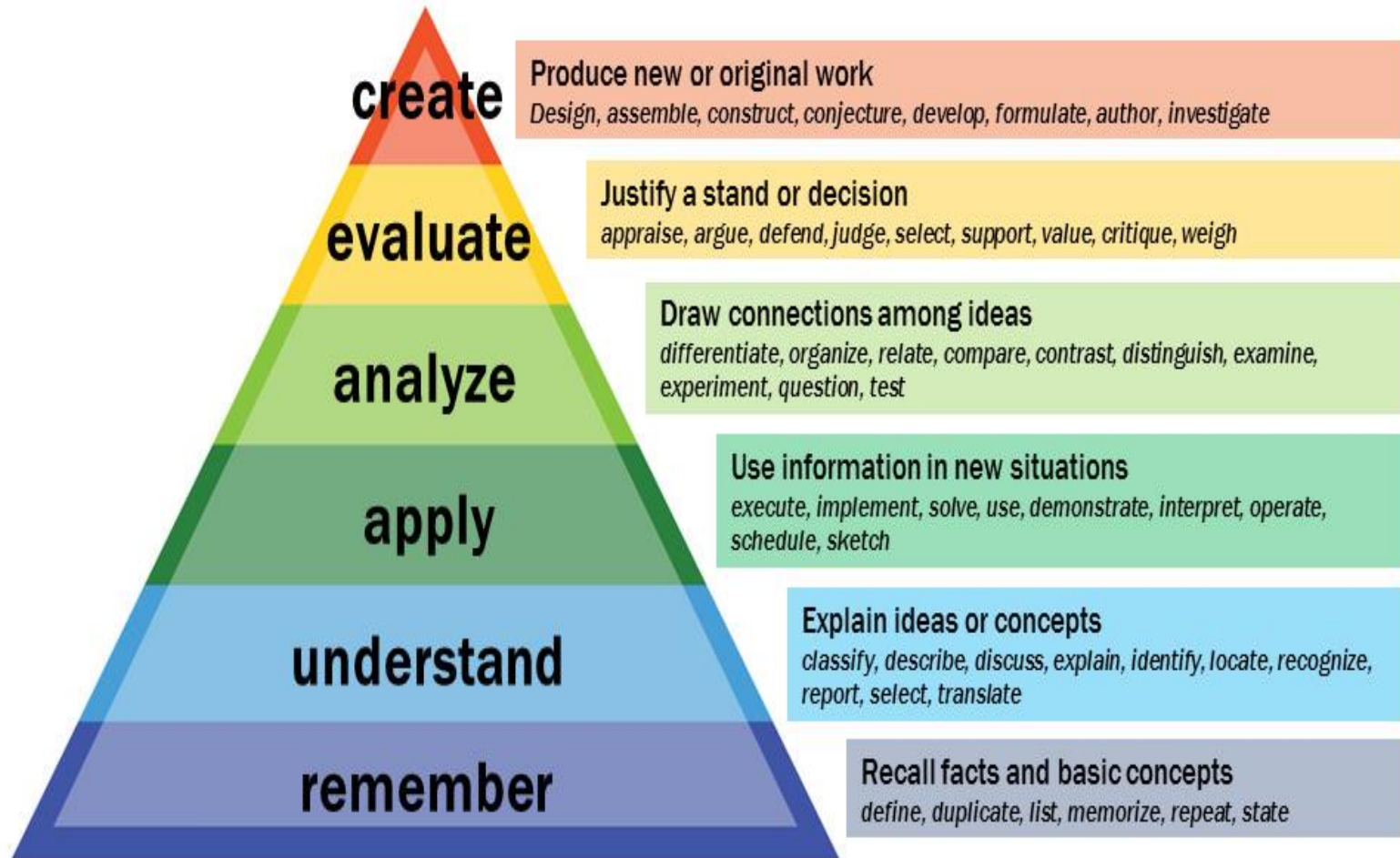
Your teaching



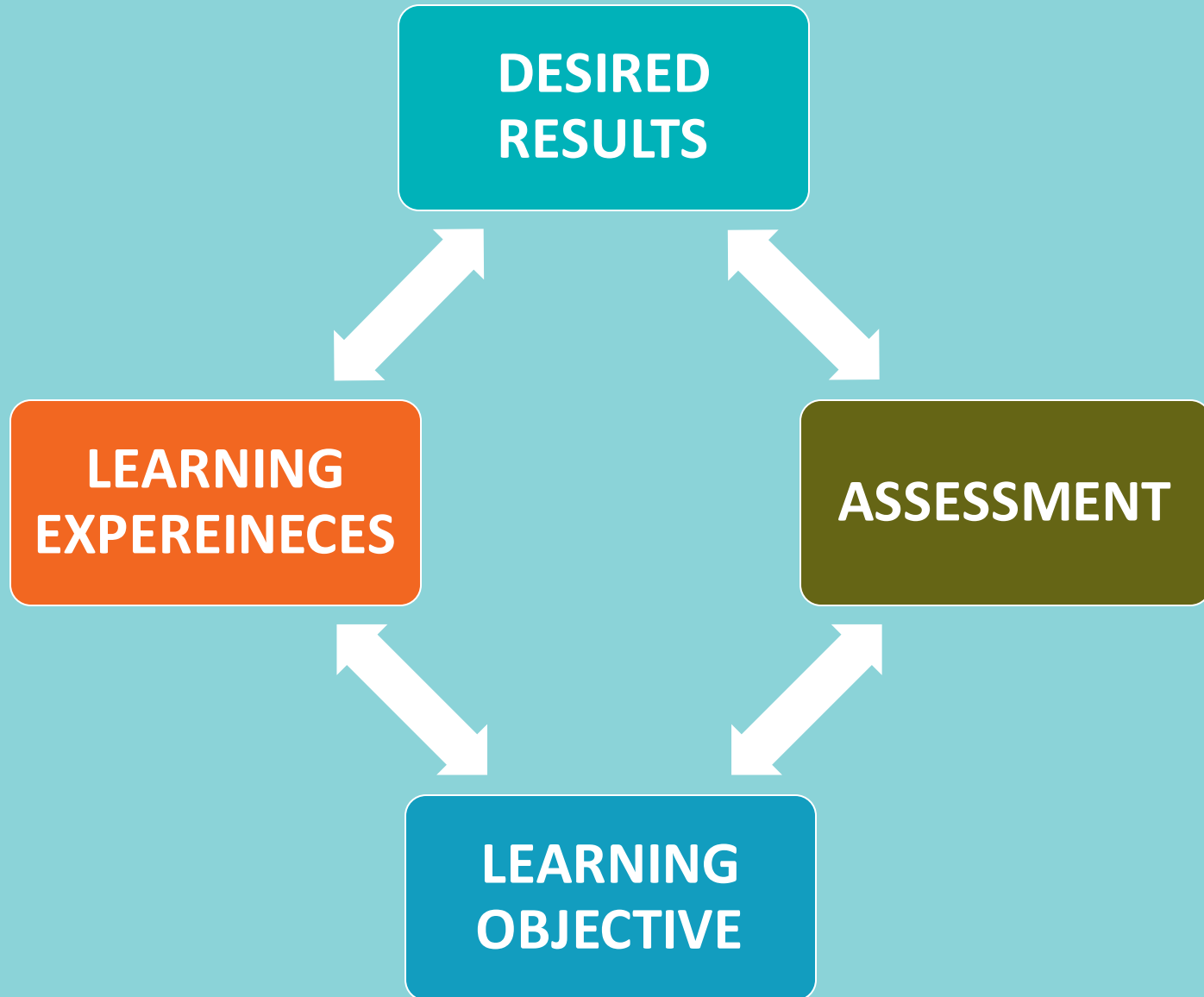
Assessment Evidence

Verbs matter...

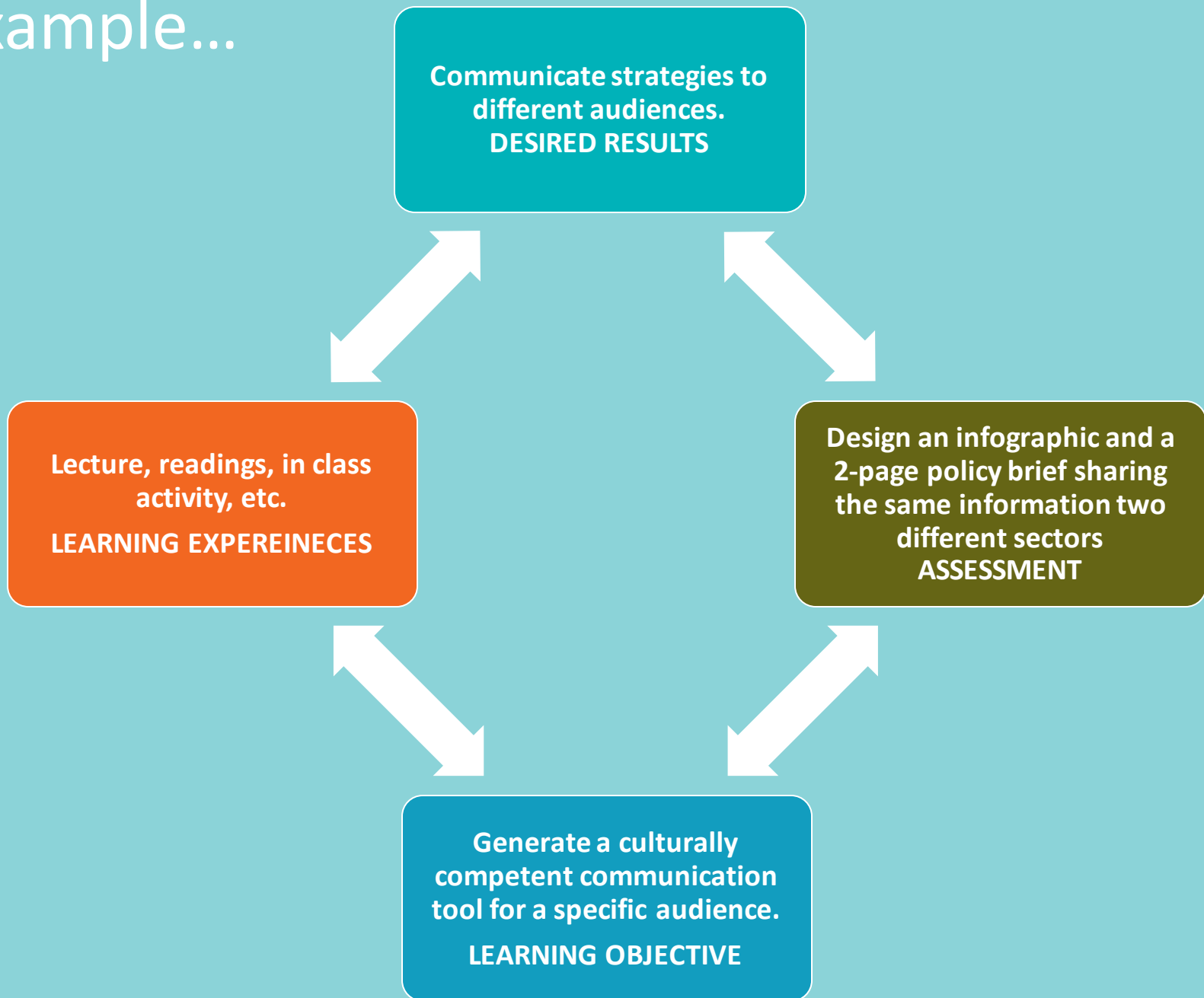
Bloom's Taxonomy



Alignment matters...



Example...



Step 3:

Plan Learning Experiences



What learning activities and content will lead to desired results?





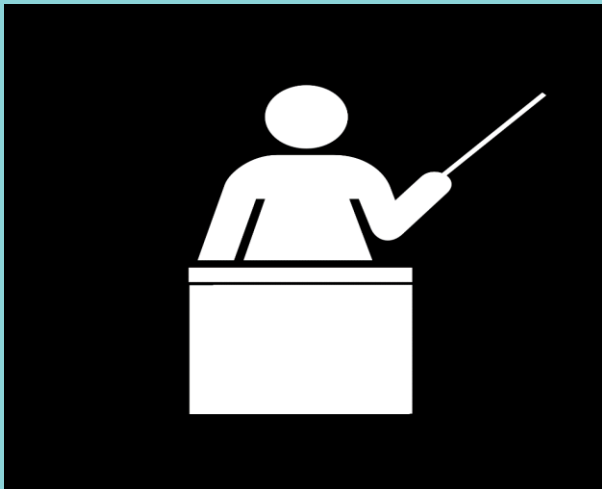
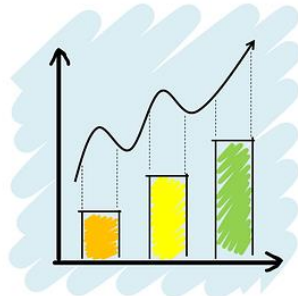
PUBLIC HEALTH CASE STUDIES

Voluntary or Regulated? The Trans Fat Campaign in New York City

This case takes students behind the scenes in the world of public health policymaking. Students follow the New York City Department of Health and Mental Hygiene, and the process it went through to craft a policy to reduce public consumption of trans fats in restaurants. In 2005, after considerable internal negotiations, the department's Bureau of Chronic Disease Prevention and Control elected to launch a public awareness campaign aimed equally at consumers, restaurants and their suppliers. But after a year, the awareness campaign had not budged the rate of trans fat use in restaurants. In 2006, the department decided to resort to regulation, despite the risks of triggering protests of a "nanny state," not to mention pushback from industry.

When BEST Intentions Go Awry: Arsenic Mitigation in Bangladesh

This case is about a public health response to the widespread arsenic contamination of groundwater in Bangladesh. It examines the lead-up to a 2008 media crisis that confronted a Columbia University clinical trial of a potential treatment for arsenic poisoning. The case raises for discussion the challenges of conducting research in rural, less developed and culturally insular communities. It also asks how to help communities while studying them—complicated by funding restrictions and a possible skewing of results.



Examples of Authentic Learning

Interviews

Video reports/projects

Oral reports

Case briefs

Photo stories

Peer editing/review

ePortfolios

Data Analysis

Infographics

Debates

Ask the "expert"

Letters to editor/government

Floor plans

Timelines

Surveys

Research data (real data sets)

Document Analysis

"Teacher" for a day, module or concept

Case studies

Podcasts/Vlogs

Product reviews

Article critiques

Concept mapping

Graphing data

Presentations

Design projects

Group Projects

Models/constructing objects

Proposals

Scenarios

Inquiry based Learning

Journaling/reflection

Wikis and other collaborative writing

Group problem solving

Blogs

Lab work

Role playing

Simulations

Field work

Field trips

Research projects

Problem based learning (PBL)

Real world problems (finding solutions)

Editorials

Multi-media creation



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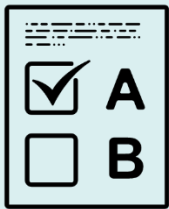
Adapted from Lombardi, M. M. (2007). Authentic learning for the 21st century: An overview. Educause learning initiative, 1(2007), 1-12.

Example 1



Be able to write objectives that align to goals and competencies

Have students write 5 objectives and align them with goal, assessment and activity.



Create a video demonstrating how to write objectives using 4 parts and discuss the alignment process.



Name: _____
Date: _____

Assignment 1:
Competency/Goal/Standard → Assessment → Learning Objective Alignment Worksheet (50 points)

Part 1 (25 points)
The learning objective should be specific, measurable statements that are written in behavioral terms. Learning objectives describe what the learners should be able to achieve at the end of a learning period. The objective lets us know if assessment criteria were met and if aligned correctly, we know that the competency was met.

Step 1: Create five objectives using the four parts of an objective as shown in the course modules and list below. Each objective is worth 5 points (Condition=1 point, Who= 1 point, Behavior=2 points, and Criterion=1 point) for a total of 25 points.

- **Condition:** Describe the conditions under which the learner will be expected to perform in the evaluation situation
- **Who:** Define who will be expected to perform (Student, participant, etc.)
- **Behavior:** Describe the observable action using appropriate verbs (Bloom's Taxonomy) along with the task.
- **Criterion:** Make clear how well a learner must perform to be judged adequate

Example: By the end of this lesson, the students will be able to analyze five objectives using the four components of an instructional objective within a given context using task analysis in 45 minutes or less.

	Condition	Who	Behavior	Criterion
1.				
2.				
3.				
4.				
5.				

Name: _____
Date: _____

Part 2 (25 points)
In Part 1 you created measurable learning objectives, and now you will align the five objectives you created to the discipline standards/goals or competencies that apply to the learning objectives and the assessment activity that you will use to collect evidence. Competencies serve as the basis for skill standards that specify the level of knowledge, skills, and abilities required for success in the academic program as well as measurement criteria for assessing competency. If you are teaching, you should have program goals, competencies or standards to use for alignment. If you are not teaching, please contact the instructor for guidance.

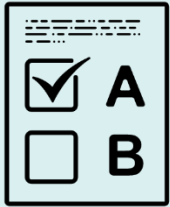
Each Competency/Goal/Standard → Assessment → Learning Objective is worth 5 points for a total of 25 points.

Competency/Goal/Standard	Assessment	Learning Objective
1. MIEFT 602 Course Goal: Construct learning modules for traditional/inline, hybrid, and flipped classrooms using best practices	Online, traditional, Flipped Classroom and Blended technology projects.	After <u>completing</u> this course, the student will be able to <u>construct</u> a presentation/assessment artifact using technology in the online classroom meeting best practice and design standards.
1. CEPT Master of Public Health Competency (Program Accreditation): Analyze quantitative and qualitative data using descriptive, inferential, computer-based programming, and software, as appropriate.		After <u>completing</u> this module, the student will be able to <u>analyze</u> the accuracy of screening and diagnostic procedures using sensitivity, specificity, and predictive values correctly.

Example 2



Construct learning modules using technology for traditional/online, hybrid, and flipped classrooms using best practices



Design and build a technology tool presentation or assessment for students/participants

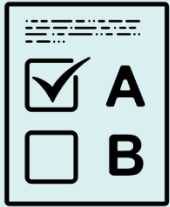


Video lecture (presentations and assessments using technology), technology tools discussion board, SAMR lecture

Example 3



Patient will be able to check blood glucose when leaving the medical office



Have the patient practice using glucose monitor in the office

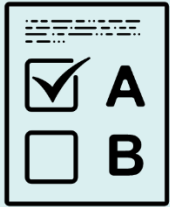


Create infographic with glucose monitoring steps and FAQs and go over each step in the office before practicing

Example 4



Faculty will know how to create teaching presence in online classrooms



Review course space for teaching presence indicators



Video lectures, readings, handouts, tip sheets

The End

