

# MOVING BEYOND THE LECTURE

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## CRITERIA FOR DEVELOPING LEARNING OBJECTIVES

### (Checklist)

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- ☐ 1. Relevant to learners needs?
- ☐ 2. Consistent with overall learning goals? Program philosophy?
- ☐ 3. Consistent with knowledge and skills of instructors?
- ☐ 4. Stated in behavioral terms? State what the learner should be able to do? State how should the learner be able to respond?
- ☐ 5. Stated in clear language?
- ☐ 6. Narrow and specific?
- ☐ 7. Achievable in terms of time constraints?
- ☐ 8. Achievable in terms of learning resources?
- ☐ 9. Suitable for evaluating learning results? Do they imply how instructors can know whether the objective has been achieved?

## **Learning Objectives Should be Written Using the Acronym**

### **SMART**

#### **S - SPECIFIC.**

Objectives should be written in very specific terms to avoid confusion. They define results to be accomplished.

**M – MEASURABLE.** How will we know they are accomplished?

**A – ATTAINABLE.** Objectives should be challenging, yet attainable.

**R – RELEVANT.** Objectives should be relevant to the topic to be taught.

**T – TIME BOUND.** Objectives should consider the amount of time for the session.

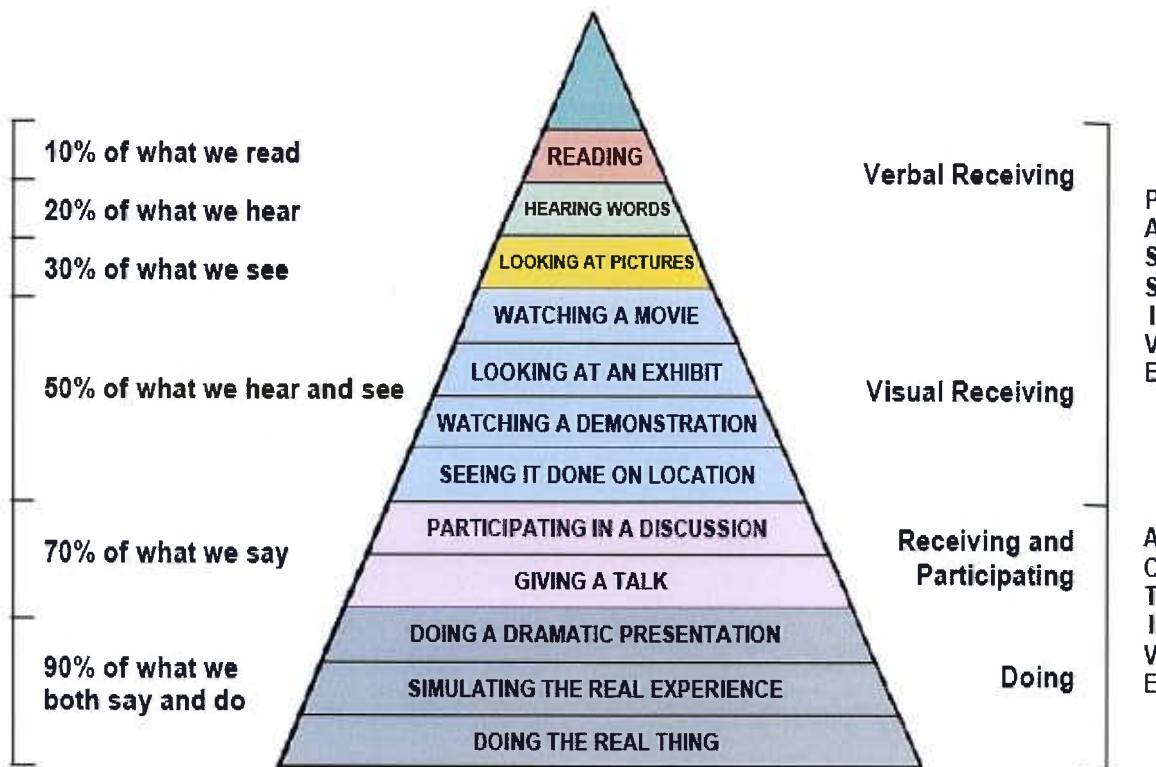
## DALE'S LEARNING CONE OF EXPERIENCE

Below is an outline of the advantages and disadvantages of specific learning methods a faculty member should become acquainted with. It shows graphically various learning activities grouped by levels of abstraction (right column below) and indicates their relative effectiveness as teachign methods (left column below).

### CONE OF LEARNING

#### WE TEND TO REMEMBER OUR LEVEL OF INVOLVEMENT

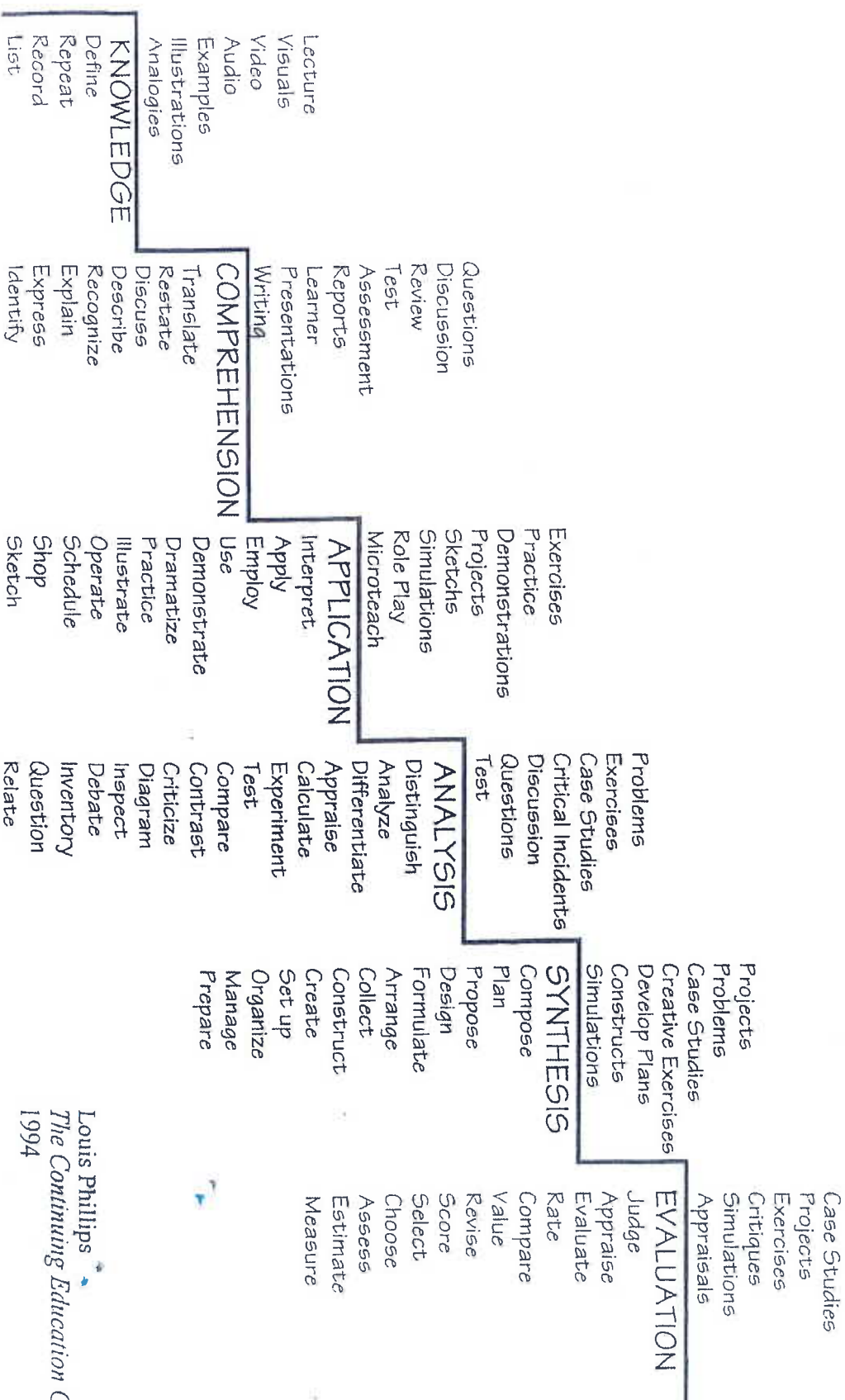
(developed and revised by Bruce Hyland from material by Edgar Dale)



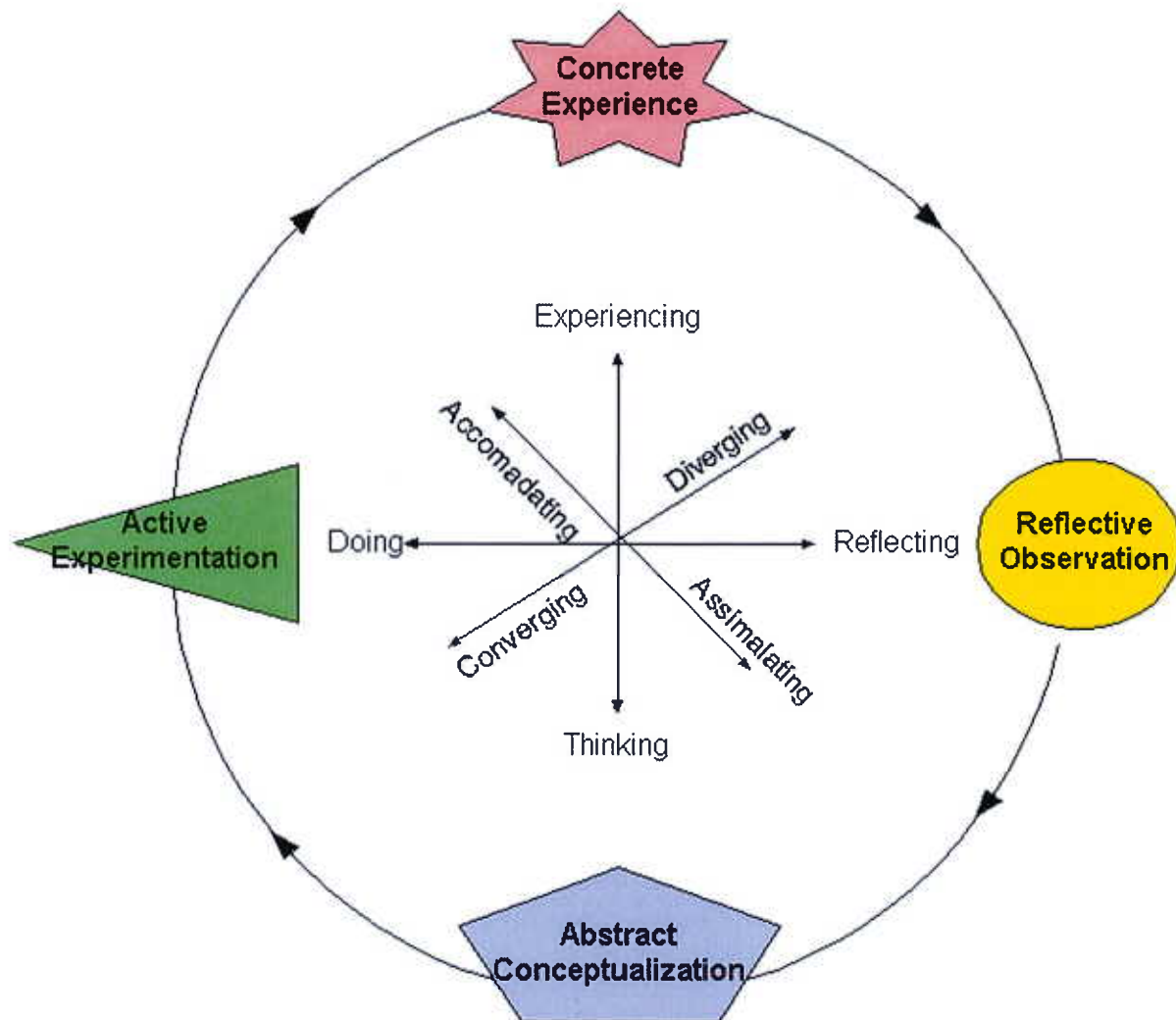
Edgar Dale, *Audio-Visual Methods in Teaching* (3<sup>rd</sup> Edition), Holt, Rinehart, and Winston (1969).

You will note that the instructional techniques classified in Dale's Cone of Experience range in a hierarchy of levels from the simple to the complex. That is to say, a teaching method that appeals to only one sense, such as reading or hearing, is simple, but one that appeals to more senses or a combination is complex and more likely to result in a retention of learning.

# Suggested Instructional Strategies for Use with Each Level of Bloom's Taxonomy



## THE KOLB CIRCLE OF LEARNING



## TEACHING STRATEGIES AND THE LEARNING CIRCLE

### **Direct or Concrete Experience**

Activities which involve the learner in the experience either physically or emotionally. Hands-on, uses the senses, engages the learner effectively. May have to be vicarious experience. “Here and now” data.

- Recalling past experience
- Role play
- Demonstration
- Observation
- Case studies
- Films
- Interviews
- Self-tests

### **Reflections on Experience**

Activities which require the learner to step back and look at experience, get perspectives of others, make connections to other experiences.

- Structured small group discussions
- Reflective papers
- Journals
- Copying notes
- Asking learners how they react to a session
- Asking learners to make connections to other learning
- Asking learners to discuss class session with other people
- Socratic dialogue
- Formulating questions

### **Abstractions or Principles**

Information from authoritative sources. Using research and specialized knowledge from the law and other disciplines to develop principles. “There and then” data.

- Print (benchbooks, journal articles and other readings)
- Authoritative guidelines (checklists, rules, procedural steps, chronologies)
- Lectures
- Films
- Quick reference guides
- Forms, charts, documents
- Flowcharts

### **Application**

Opportunities for the learners to try out principles or theories in problem-solving.

- Role play
- Individual and group projects
- Video-taping of practice session
- “What if” situations
- Devising plans of action
- Problem-solving activities



## LEARNING MODES AND CAPACITIES FOR LIVING

### Concrete Experience

- Contributes to increased affective functioning
- Enlarges repertoire of appropriate emotional responses
- Promotes higher order sentiments, including capacity of intimacy
- Promotes valuing

### Reflective Observation

- Sharpens perceptual capabilities
- Potential for reducing capacity for empathy
- Increases perspective taking
- Contributes to ability to discern and assign meaning
- Increases tolerance

### Abstract Conceptualization

- Develops sophisticated symbolized proficiency
- Enables us to think in abstractions
- Permits appreciation for many higher order concepts (i.e., God, love, Justice)
- Helps in discriminating between facts
- Helps in defining reality
- Sharpens analytical and digital thinking
- Increases capacity for logic

### Active Experimentation

- Increases behavioral complexity
- Helps refine actions, nuance
- Behavior becomes more congruent with knowledge
- Develops self-control
- Actions become more appropriate for circumstance
- Control of temper and violent behavior

*As one matures and transits the circle repeatedly, constantly recycling and integrating the dialectic conflicts among the four modes, one moves to greater creativity and growth. The capacities increasingly impact on each other and contribute to each other, i.e., as one's perceptual capacities increase, so does one's behavioral repertoire.*

*The circle this becomes a helix or a cone, the four modes positioned at some distance forming the floor, and with distance decreasing as the modes are engaged at increasing levels of sophistication and complexity.*



## ADULT EDUCATION LEARNING TECHNIQUES

Pre-tests/Self-tests

Note-Taking Forms

Commitment Methods (i.e., gavel rotation, stop signs, hand raising)

Prizes (lottery tickets, book store gift certificates, etc.)

Games (i.e., jeopardy game show)

Team Competition

Break-Outs/Small Discussion Groups

Role-Playing [use of props (hats), costumes, (robe for judge)]

Reporting Solutions (i.e., transparencies, flipcharts, large “post-its”)

Audience Questions and Answers (index cards)

Brain Storming

Case Studies

War Stories

Panel Discussions/Debates

Open Forum

Demonstrations (video, live)

Handouts

Overheads/Transparencies/PowerPoint

Questionnaires

Outside Testimony

“Lecture”

## PRESENTATION METHODS AND ACTIVITIES

Type of Presentation	Best Use	Audience Status	Special Aspects	For Best Results
<b>Lecture</b>	To convey large amounts of information in a short time.	Passive-may produce inattention or boredom	Implies superiority of the speaker, which negates the adult education principle of mutuality	Break into 45-minute segments  Allow questions throughout  Integrate with other methods
<b>Debate and Panel Discussion</b>	To show controversy and diversity	Active psychological, emotional, and physical involvement, especially if questions are asked	Needs a moderator	Inform panel of program objectives  Allow each panelist a set time for presenting views  Actively engage each panelist in answering participants' questions
<b>Small Group Activity</b>	<b>To Convey:</b> <ul style="list-style-type: none"> <li>• Personal Experiences</li> <li>• Individual Knowledge</li> <li>• Specific Perspective</li> <li>• Consensus on Issues</li> <li>• Responses and Reactions</li> </ul>	Every individual participates  Shared ownership in educational outcome	Provides opportunity for learners to practice using the information conveyed	<b>Must have:</b> <ul style="list-style-type: none"> <li>• Concrete objectives</li> <li>• Clear and written instructions</li> <li>• Assigned time allocations</li> </ul> Must be integral part of the topic being conveyed  5-7 people per group; minimum of 3, maximum of 9
<b>Demonstration</b>	To model new skills	Drawn into program	Eases tension learners may feel about trying out new information	Inform all players of the expected outcome; provide script
<b>Experimental Activity-Role Play</b>	To test new information and personal abilities in life-like situations	Learners are part of the program, giving them ownership and building trust in faculty, each other, and use of new information	Provides opportunity for learners to apply new information with little risk and no consequence for error	<b>Preplan</b> <ul style="list-style-type: none"> <li>• Have clearly stated instructions</li> <li>• Establish appropriate timeframes</li> <li>• Monitor the activity as it happens</li> <li>• Be flexible in outcomes</li> <li>• Tie the experience back to the information presented</li> <li>• Conduct structured discussions following activity</li> </ul>
<b>Individual Activity</b>	To convey facts, directions, individual action plans, and application of new information	Learners are part of the program and gain ownership in its success	Learners are in control and can experience a sense of individual accomplishment and enhanced self-esteem	Volunteers should share work with faculty for discussion

*Based on information contained in Curriculum, Program and Faculty Development; Managing People, Processes and Product, Waldrop and Conner, 1994, JERITT*

## CHECKLIST FOR EFFECTIVE TEACHING

### IS THE CONTENT...

- ☐ Relevant to the audience you are teaching?
- ☐ Practical for the responsibilities of the participants?
- ☐ Important, urgent, new, and/or critical to the audience?
- ☐ Focused (can be developed in time frame and structure of course)?

### DO THE TEACHING METHODS...

- ☐ Provide learners an opportunity to acquire information, process it, structure it and try it out?
- ☐ Encourage learners to actively participate in the learning experience?
- ☐ Keep learner interest and provide variety?

### ARE THE VISUALS...

- ☐ Used appropriately to make major points?
- ☐ Well prepared and add interest (readable, simple, clear)?
- ☐ Feasible within the time and space available?

### DO THE MATERIALS...

- ☐ Provide support for the presentation?
- ☐ Enable the participant to concentrate on the presentation without worrying about excessive note-taking?
- ☐ Include critical case citations and/or bibliographic citations?
- ☐ Look good? Are they clear and readable?
- ☐ Provide a logical, practical format that enables participants to follow the presentation?