Goal: State the Goals (standards/indicators) intended for the lesson.

- Break down into specific content objectives.
- Example: Benchmark: Students will understand and apply surface area concepts:
 - Know area formulas
 - o Know steps to find surface area
 - o Find surface area for various objects
 - o Predict uses for finding surface area

Access: What will you do to access students' prior knowledge?

- Graphic organizers
- Concept map
- Make predictions
- KWL Chart
- Visualization
- Picture or Object
- Story or analogy
- Summary or review
- Question or hypothesis

New: Acquire new Information: Declarative, Procedural, or Both

- To acquire declarative knowledge: Gather and organize
- To acquire procedural knowledge: Follow steps and practice

Apply Knowledge- a thinking skill or practice

Knowledge

To process declarative knowledge:

	C	•
•	Comprehension	Concept/convention formation; Predict (if, then)
•	Apply	Compare; Make an analogy
•	Analyze	Express a point of view; Identify a system of structure
•	Synthesize	Form and test a hypothesis: Solve a problem
•	Evaluate	Make a decision; Argue or persuade; Make a judgment or
		critique

Recall (facts or method); Classify

To process procedural knowledge:

• Shape and use in a new situation

Generalize or Summarize Knowledge Learned:

•	Paper and Pencil	Physical representation	Computer-assisted
•	Anecdotal example	Partner strategies	

The Nine Research-Based Strategies That Affect Student Achievement

1. Identify similarities and differences

- Use Venn diagrams or charts to compare and classify items.
- Engage students in comparing, classifying, and creating metaphors and analogies.

2. Summarizing and note taking

- Provide a set of rules for creating a summary
- When summarizing, ask students to question what is unclear, clarify those questions, and then predict what will happen next in the text.
- Use teacher prepared notes.
- Stick to a consistent format for notes, although students can refine the notes as necessary.

3. Reinforcing effort and providing recognition

- Find ways to personalize recognition, give rewards for individual accomplishments.
- "Pause, Prompt, Praise." If a student is struggling pause to discuss the problem, the
 prompt with specific suggestions to help he/she improve. If the student's performance
 improves as a result, offer praise.

4. Homework and practice

- Establish a homework policy with advice-such as keeping a consistent schedule, setting, and time limit.
- Tell students if homework is for practice or preparation for upcoming test.
- Maximize the effectiveness of feedback by varying the way it is delivered.

5. Nonlinguistic representation

- Incorporate words and images using symbols to represent relationships.
- Use physical models and physical movement to represent information.

6. Cooperative learning

- When grouping students, consider a variety of criteria, such as common experiences or interests.
- Vary group sizes and objectives.
- Design group work around the core components of cooperative learning-positive interdependence, group processing, and appropriate use of social skills, face-to-face interaction, and individual and group accountability.

7. Setting objectives and providing feedback

- State benchmark/indicator is student friendly language.
- Set specific goals that students must attain and the grade they will receive if they meet those goals.
- Make sure feedback is corrective in nature; tell students how they did in relation to specific levels of knowledge: Rubrics are a great way to do this!
- Keep feedback timely and specific.

8. Generating and testing hypotheses

- Ask students to predict what would "happen" if questions.
- Ask students to build something.

9. Questions, cues, and advance organizers

- Pause briefly after asking a question.
- Vary the style of advance organizers. There are many ways to expose student to information before they "learn" it.