

# Effective Teaching with Powerpoint

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# Lecturing 15<sup>th</sup> Cent.



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# Learning & Teaching

*Learning is not a spectator sport. Students do not learn much just by sitting in class listening to teachers, memorizing pre-packaged assignments, and spitting out answers. They must talk about what they are learning, write about it, relate it to past experiences; apply it to their daily lives. They must make what they learn part of themselves.*

(Chickering and Gamson, 1997)

*All genuine learning is active, not passive. It is a process of discovery in which the student is the main agent, not the teacher*

(Adler, 1982)

# Effective Teaching with Powerpoint

- PowerPoint is only a tool
- By strategically employing it we can create opportunities for effective learning
- Learning outcome for session
  - Use a variety of active learning strategies to help students learn more from your lectures.

# Power point & Lectures

- Lectures have beginnings, middles & end
- Beginning a Lecture
  - What are your goals at beginning of lecture
  - Gain student's attention & motivate them to learn
- How with power point ???

# Beginning of Lecture

- Tell students what they will learn in the day's session
- State learning outcomes
  - what students should be able to do/demonstrate
  - Knowledge, Skills , Competencies
  - PPT allows you enumerate your main points & revisit at end
- Students learn by building on prior knowledge & connecting to what they already know

( Piaget, Vygotsky)



# Strategy 1: Opening Question:





# Strategy 2: Introductory Think-Pair-Share

1

Think of what  
you know about

**ACTIVE  
LEARNING  
STRATEGIES**

2

Turn to a partner  
and share your  
knowledge.

3

Do you have  
anything to  
share with the  
class?

# During a Lecture

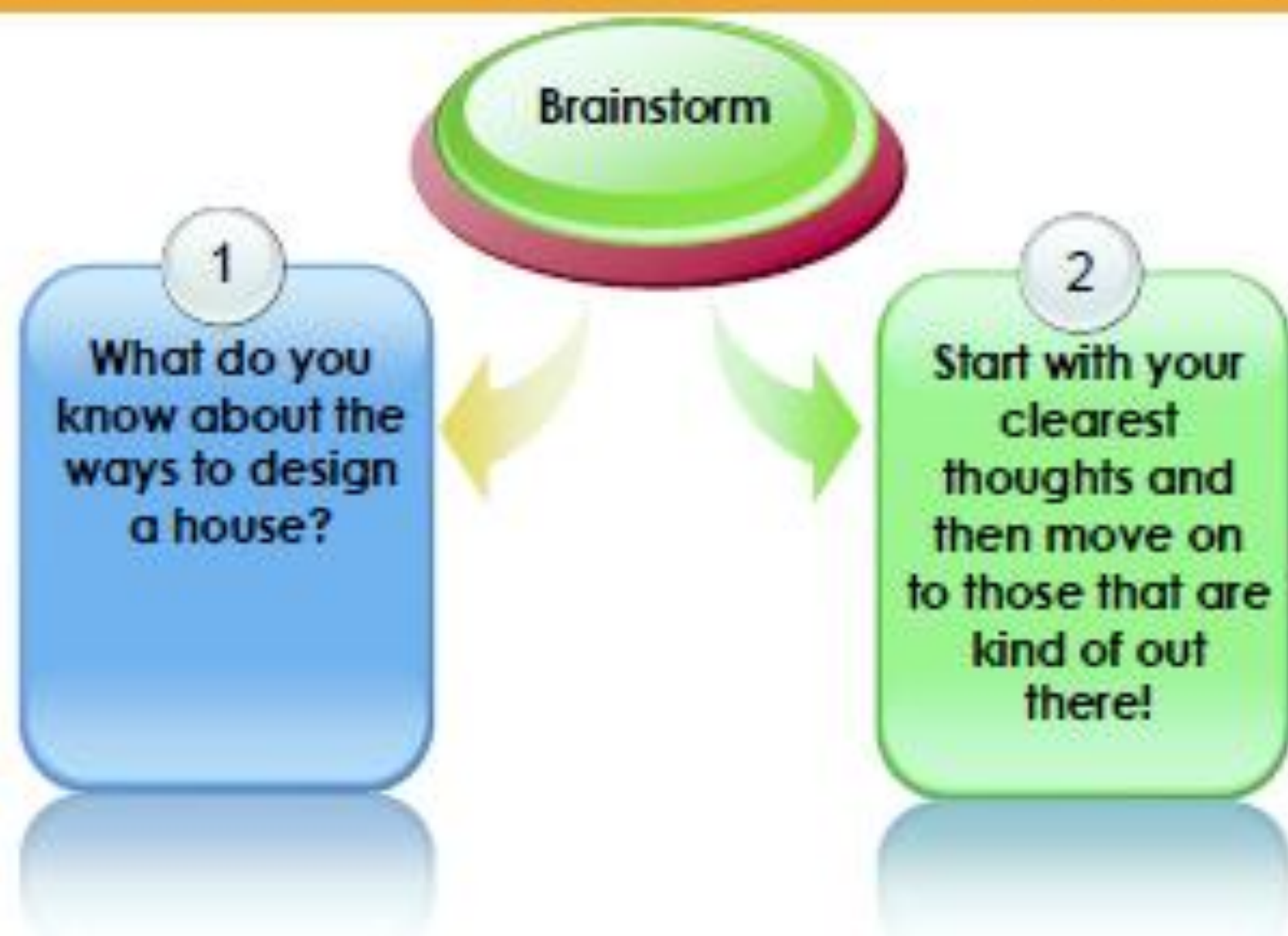
- Mid – point present your content
- Key issue student attention
- Research shows that pause every 15 mins for students to process the information actively
- What can we do???

# Strategy 3: Focused Listing

1

Take out a sheet of paper and list as many characteristics of good aircraft design as you can.

# Strategy 4: Brainstorm





## Strategy 5:

# Pose a problem

- Use image that relates to concepts , short video clip



# Strategy 7: Think-Pair-Share

1

Think about  
how you might  
use this  
concept in your  
life.

2

Turn to a partner  
and discuss.

3

Share your  
findings with the  
large group.



## Strategy 8: Note Check

1

Take a few minutes to compare notes with a partner

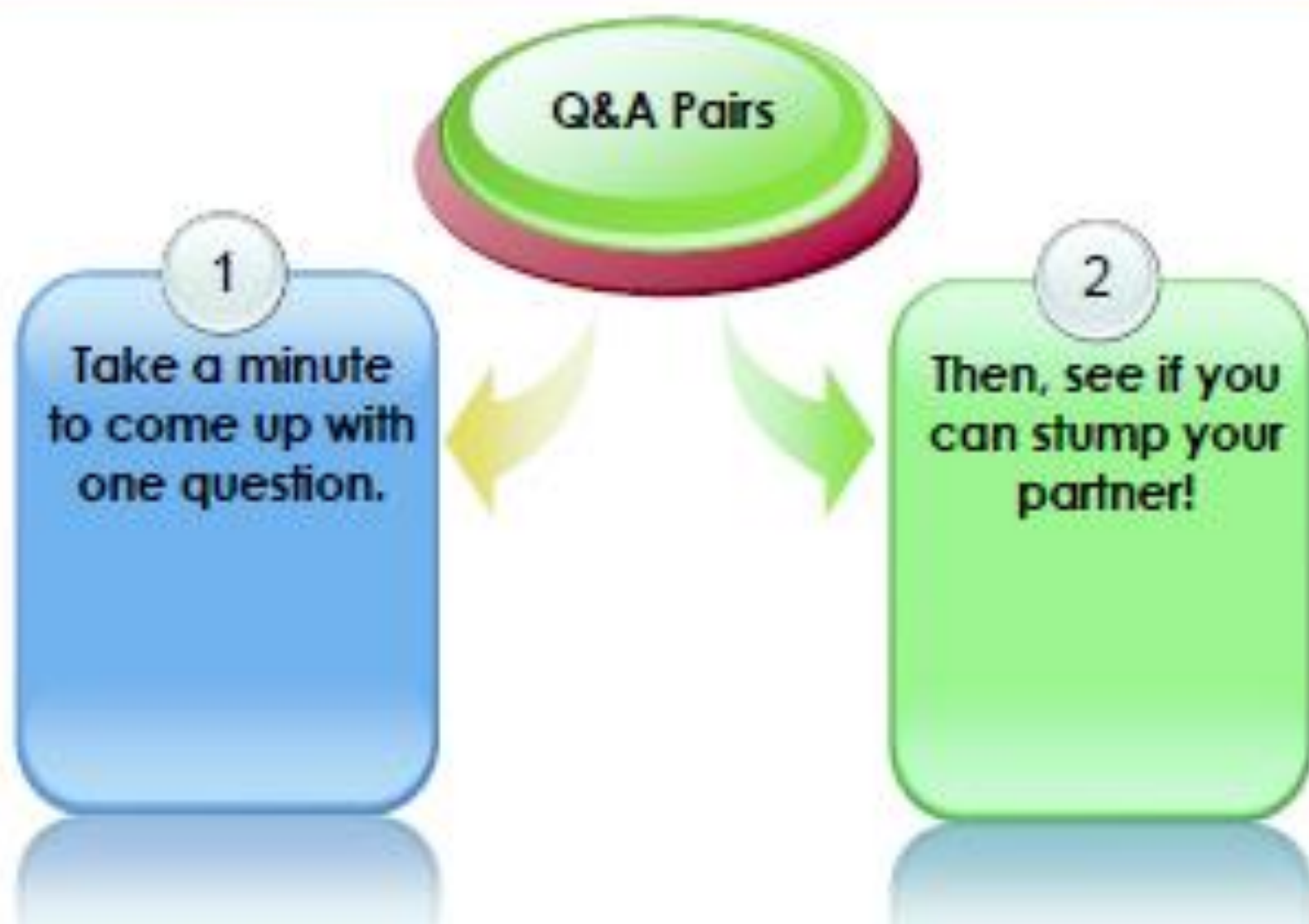
2

Summarize the most important information.

3

Identify (and clarify if possible) any sticking points.

# Strategy 9: Question and Answer Pairs



# CAT : Ask three questions ( Angelo & Cross)

**In threes please consider**

- 1. What symptoms do you see in a cat with a kidney infection?**
- 2. How might you test for this?**
- 3. What treatment would you recommend?**

# Quick thinks

- **Use to break up lecture**
- **Try to avoid lecturing >15 minutes at a time.**

**Select the best response**

**Correct the error**

**Complete a sentence**

**Compare or contrast**

**Support a statement**

**Reorder the steps**

**Reach a conclusion**

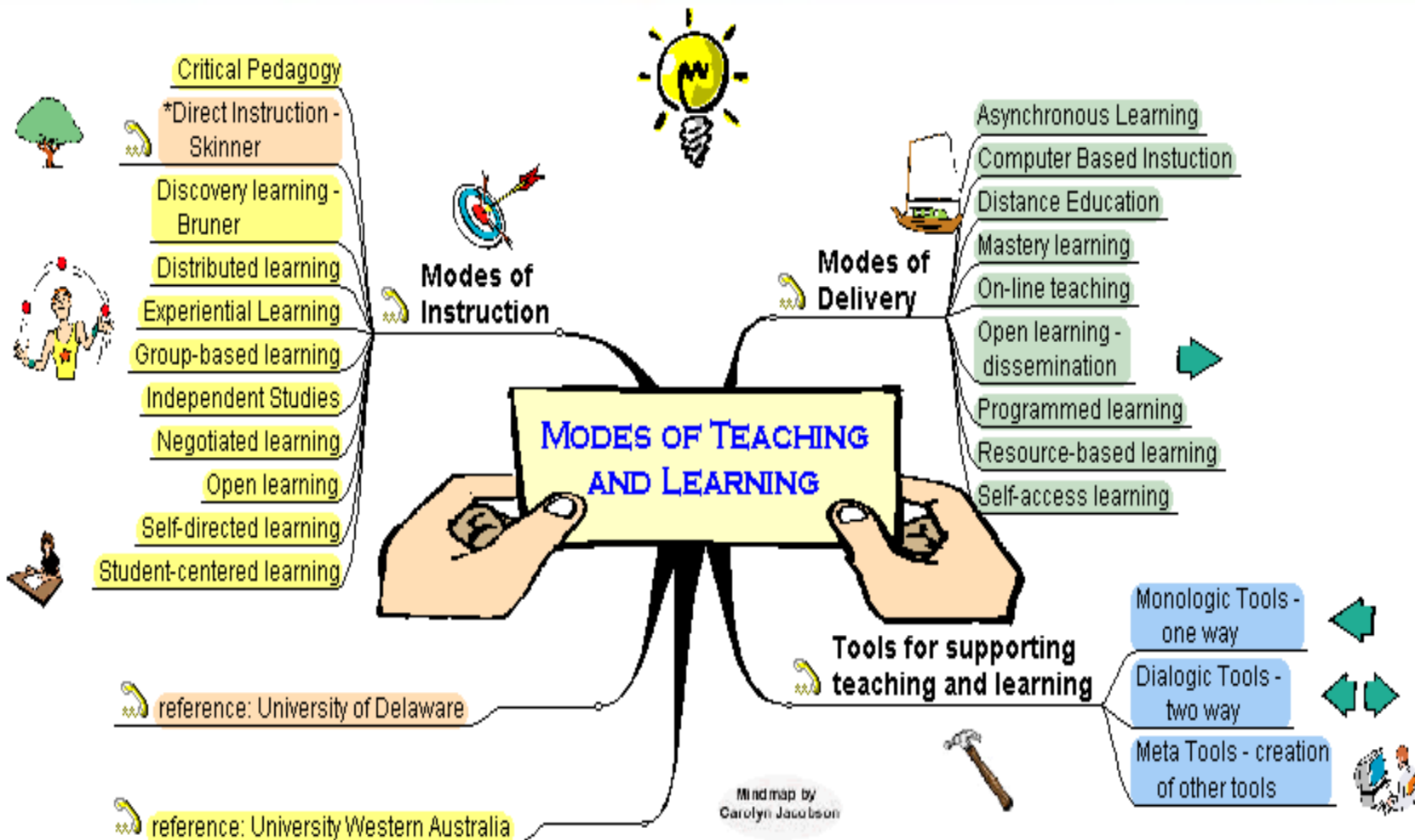
**Paraphrase the idea**

# Finishing a Lecture

- Summarise key learning points
- Provide closure,
  - give students opportunity to make sense of information for themselves
- Link back to learning outcomes
- How with ppt ??

# Strategy

## Use Mind maps





# Mind mapping

- Mind Maps:
  - Mind Genius now available in Institute
- Concept mapping
  - Educational evaluation and research
- Further info/workshop from TLC

# Strategy 10: Two Minute Paper

1

Summarize the most important points in today's lecture.

# Strategy 11: If you could ask one last question...

1

**what would it  
be?**

# Strategy 12: One Final Question...

1

**Which of the strategies would you use in your own classes**

# Have a go! Thank you...



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# References

Angelo, T. & Cross, K.P. (1993). *Classroom Assessment Techniques: A Handbook for College Teachers*.

Exley, K. Dennick, R. (2004) *Giving a Lecture : from presenting to teaching*