Active Learning:
case study in Microbiology and Parasitology

Dr.-Ing. Thanet Urit
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Faculty of Science and Technology, Nakhon Sawan Rajabhat University
Overview

- Concept of active learning
- Demonstrate techniques and activities
- Incorporate: Microbiology and Parasitology
- Tips for teachers
What is Active Learning?
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Active Learning

Lecture

What is Active Learning?

AFTER TWO WEEKS WE TEND TO REMEMBER ...

10% of what we read
20% of what we hear
30% of what we see
50% of what we see and hear

READING
HEARING WORDS
LOOKING AT PICTURES
WATCHING A MOVIE/VIDEOTAPE
LOOKING AT AN EXHIBIT
WATCHING A DEMONSTRATION
SEEING IT DONE ON LOCATION

PASSIVE

50%

What is Active Learning?

After two weeks we tend to remember...

10% of what we read
20% of what we hear
30% of what we see
50% of what we see and hear
70% of what we say
90% of what we say and do

Why use Active Learning?
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✓ Behind every good teacher is an exhausted class!
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✓ Tell me, I forget. Show me, I remember. Involve me, I understand.
Why use Active Learning?

✓ Behind every good teacher is an exhausted class!

✓ Tell me, I forget. Show me, I remember. Involve me, I understand.

✓ Give a man a fish; you have fed him for today. Teach a man to fish; and you have fed him for a lifetime.
Active Learning Strategies?
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- Group projects
- Role playing
- Research
- Table quizzes
- Crosswords
- Word-search
- Mind-maps
- Think-Pair-Share
- Paired Reading
- Drill and Review Pairs
- Turn-to-your-neighbour summaries
- Four-step review
- Matching exercises
- Whip-around
- Graphic Organisers
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Group-work

The size of the group will depend on a number of factors – **TEAM**

- **T** – time
- **E** – experience
- **A** – age
- **M** – materials
Ideal topics for group projects

- Parasitology
- Characteristic
- Life’s cycle
- Model
- Diseases
- Prevention
- Group questions
- Summary
Parasitology: Malaria disease
Parasitology: Malaria disease

Parasitology: Malaria disease

Parasitology: Malaria disease

Group projects: Parasitology

- Department of Health Sciences: 39 members of student
- Period: 6 times
- Group projects technique
- Evaluations
Group projects: Parasitology
Group projects: Parasitology
Group projects: Summary

Data from evaluations form in order to monitor how effective of active learning used.
Group projects: Summary

- >20% Higher by active used
- Effective to remember
- More satisfied
Tips: I'M TEACHING
Tips:

✓ Use **short segments of time** e.g. “you have three minutes to complete the first two questions.”
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✓ **Carefully monitor** groups while they are working.
**Tips:**

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✓ Only distribute one resource per group, which encourages positive interdependence.
Acknowledgement

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Thank you for your attention !!!