Day 2 Effective teaching and learning

Day 2 Training objectives

- To be aware of the characteristics of effective teaching and learning
- To know the pedagogical approach to be taken as identified in the subject programmes
- To participate in an active learning activity
- To understand what active learning is
- To incorporate active learning principles into teaching activities
- To know that learning should be objective led, not activity driven

Day 2 Training objectives

- To know what an effective learning environment should be like
- To explore possibilities for display as a learning tool
- To understand how to create and develop an interactive learning environment

Day 2 Overview

- Session 1
 Characteristics of effective teaching and learning
- Session 2
 Active learning 1
- Session 3Active learning 2
- Session 4
 Learning environment

Day 2 Session 1 – Characteristics of effective teaching and learning: session overview

- Discussing ideas for characteristics
- Matching characteristics to classroom images
- Thinking of examples of characteristics in own classroom

Day 2 Session 1 – What are the characteristics of effective teaching and learning?

Discussion in pairs

List five characteristics of effective teaching and learning

Share ideas in small groups

Day 2 Session 1 – Some characteristics of effective teaching and learning

In pairs, match these pictures to possible characteristics listed

on the handout



A





3



D

Day 2 Session 1 – Some characteristics of effective teaching and learning

In pairs, match these pictures to possible characteristics listed

on the handout





G



Ε

Day 2 Session 1 – 1 Active learning

Learning from own experiences:

- Allows learners to experiment, construct meaning and develop understanding
- Relates new knowledge to existing knowledge
- Making mistakes makes us check and refine our understanding
- Results in deeper learning
- Changes attitudes



Picture F

Day 2 Session 1 – 2 Collaborative learning

Structured group work:

- Improves interpersonal and communication skills
- Improves acquisition of information and higher-level thinking skills
- Promotes positive interdependence
 'we succeed together'
 - 'we succeed together'
- Can break down barriers between learners



Picture B

Day 2 Session 1 – 3 Differentiation

Meeting the individual learning needs of each learner:

- Increases progression of understanding and skills
- Improves confidence and motivation
- Stimulates creativity by helping learners to understand ideas better
- Benefits all learners
- Can raise expectations for all learners



Picture H

Day 2 Session 1 – 4 Cross-curricular links

Creating links between subjects:

- Adds breadth and balance to the curriculum
- Allows deeper learning
- Provides a broader range of skills
- Can help with progression of understanding and skills
- Can help to put learning into a more meaningful context
- Can make learning more motivating

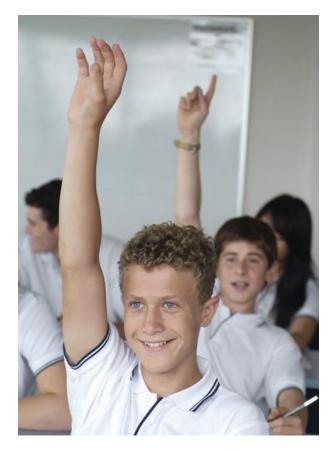


Picture C

Day 2 Session 1 – 5 Responding to learners' needs

Checking learning and giving feedback to inform learning:

- Improves motivation and self-esteem
- Gives direction to teaching
- Provides opportunities for learners to improve their work
- Helps learners to understand how to learn more effectively



Picture A

Day 2 Session 1 – 6 Learning conversations

Learners talking about a task:

- Gives learners more ownership
- Encourages transfer of knowledge and skills between learners
- Encourages deeper understanding
- Provides opportunities for learners to reflect on their progress and decide what to do next
- Challenges and motivates learner



Picture D

Day 2 Session 1 – 7 Using e-learning and new technology

Using technology:

- Offers exciting tools for active learning
- Can be motivating
- Can be used to research,
 communicate, collaborate and create
- Can give learners more ownership of a task by allowing them to search for information and find their own tools
- Allows opportunities for learning outside the classroom



Picture G

Day 2 Session 1 – 8 Modelling

An expert giving an example whilst explaining their accompanying thought processes:

- Exposes learners to subject content and expert thinking simultaneously
- Breaks a task into steps, allowing learners to become increasingly independent
- Stimulates reflection on the processes



Picture E

Day 2 Session 1

In pairs

 How do these characteristics compare with the 'Pedagogic approach' section of the subject programme?

Whole group discussion

- How is the approach similar/different to what occurs in your schools now?
- •What are the issues in implementing these approaches?
- •How can we address these?

End of Session 1

Day 2 Sessions 2 and 3 – Active learning: training objectives

- To participate in an active learning activity
- To understand what active learning is
- To incorporate active learning principles into their own teaching activities
- To know that learning should be objective led, not activity driven

Day 2 Session 2 – An active learner

Group discussion

What does an active learner look like?
Label a picture of a person with key qualities and characteristics

Share with the whole group

Day 2 Session 2 – An active teacher

What does an active teacher look like?



Day 2 Session 2 – An active teacher: Active learning principles 1

To enable progress:

- Repeat learning objectives
- Present different activities
- Practise skills
- Build on prior learning

Day 2 Session 2 – An active teacher: Active learning principles 2

To support learning:

- Promote curiosity
- Ask questions
- Experiment
- Suggest
- Invent
- Teach to learning styles



Day 2 Session 2 – An active teacher: Active learning principles 3

Make sure resources are:

- Organised
- Accessible
- Shared
- Familiar
- Made
- Used regularly
- Built up over time
- Good quality

Day 2 Session 2 – What is active learning?

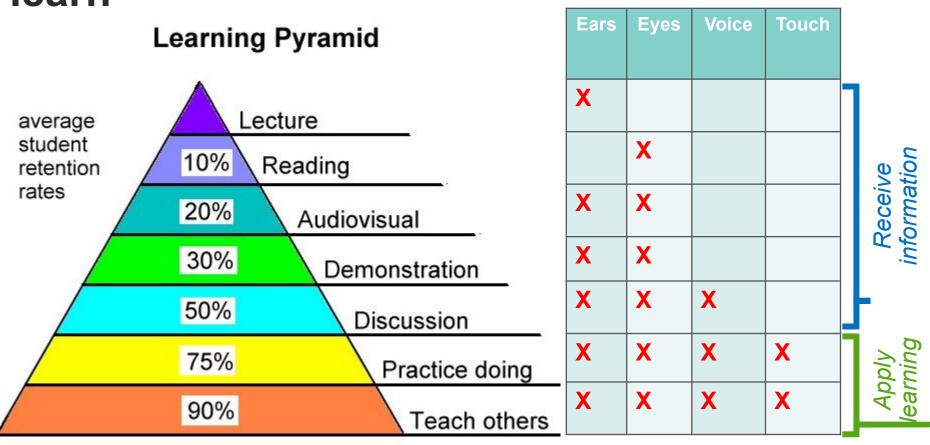
Different teaching strategies = an environment for learners to develop knowledge, skills and understanding

I listen **but** I forget!

I see and I believe

I do **then** I understand!

Day 2 Session 2 – Using your senses to learn



Day 2 Session 2

Active learning is ...

- Learning by doing
- Having FUN learning!



End of Session 2

Day 2 Session 3 – Training objectives

- To incorporate active learning principles into their own teaching activities
- To know that learning should be objective led, not activity driven

Day 2 Session 3 – Using active learning in your own teaching

Individuals

Think of a successful activity you have taught recently

Small groups

Share your activities. Record aspects of active learning

Whole group

Share some good examples of active learning What makes it a successful learning experience?

Day 2 Session 3 – 1. Why do we ask questions?

Possible reasons

- To identify gaps in learning
- To direct learner's thinking
- To assess
- To prompt further questions
- To revise a topic

- To excite interest or curiosity
- To challenge
- To model questioning and thinking
- To help clarify understanding
- To evaluate

Open questions are more likely to improve learning. They encourage talking and thinking e.g. Which metals are magnetic?

Closed questions generate "yes"/"no" answers. They can be useful but are not good at encouraging talking and thinking

e.g. Is copper magnetic?

General open questions

- •How can we …?
- •How did you ...?
- •What would happen if …?
- •Tell me about …?
- •What do you think about …?

Complete the questions to make questions you might ask in your classroom

Invert the question

Instead of asking a question that requires factual recall, invert it

e.g.

Is copper a metal?

... becomes ...

Why is copper a metal?



X and Y

Ask learners why X is an example of Y, e.g.

Why is an apple an example of a fruit?

Why is a fox an example of a mammal?

This sort of questioning requires more than factual recall – it asks for an explanation of learners' reasoning

Day 2 Session 3 – 3. Who asks the questions?

Learners asking questions

Create opportunities for learners to ask questions:

- ask the teacher
- ask each other
- a 'question box' for written questions provides a different way for learners to be able to ask questions

Day 2 Session 3 – 4. How do you involve <u>all</u> learners in asking and answering questions?

Consider asking questions such as:

What do others think about _____'s idea?

'Bounce' the question around the classroom ...

How could you develop ______'s answer to include more detail?

Then ask the learner who gave the original idea ...

How can you combine all you have heard into a single answer?

Day 2 Session 3 – 5. How do you encourage learners to ask and answer questions?

Incorrect answers

Use incorrect answers as a discussion point

This creates a classroom atmosphere in which it is okay to give an incorrect answer, and also encourages a 'have a go' attitude!

That's not quite right ... let's talk about it ...

Day 2 Session 3 – 5. How do you encourage learners to ask and answer questions?

Wait-time

Allow learners time to think:

Allow a minimum of 5 seconds

- Teacher speaks and then waits before taking learners' responses
- When learner's response ends, teacher waits before responding

This gives learners time to give a better answer or for another learner to respond

Day 2 Session 3 – 6. How can you make your questioning effective?

- Plan questions in advance this can make them more challenging
- Focus on a few carefully constructed open-ended questions
- Ask one question at a time
- Allow thinking time
- Vary question strategies
- Ensure all learners have the opportunity to respond

Day 2 Session 3 – Engaging starters for learners

- Video clips
- Photographs
- Film clips
- Objects
- Cartoons

- Pieces of music
- Questions
- Games
- Puzzles

End of Session 3

Day 2 Session 4 – Learning environments: objectives

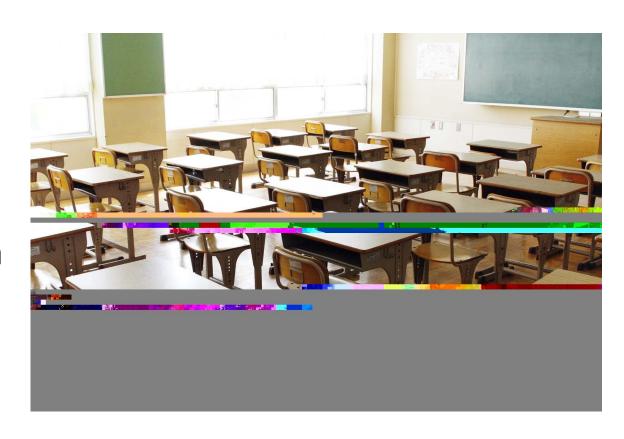
- To know what an effective learning environment should be like
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Day 2 Session 4 – Your classroom plan

Pairs

- How does your classroom enhance opportunities for learning?
- Does your classroom need to be different for you to be able to deliver the updated Kazakhstan curriculum?
- How would it be organised? What needs to be included?

What do you like or dislike about this classroom?



What do you like or dislike about this classroom?



What do you like or dislike about this classroom?



What do you like or dislike about this classroom?



Day 2 Plenary

- Review of Day 2
- Preview of Day 3: Key approaches in the updated curriculum
 - Criteria-based assessment model
 - Cross-curricular themes
 - Managing active learners
 - Effective questioning