# Getting to know me

RECOGNITION NETWORKS:

THE WHAT OF LEARNING

Learning styles

AFFECTIVE NETWORKS:

THE WHY OF LEARNING







IncluEdu where learning is inclusive





Co-funded by the Erasmus+ Programme of the European Union



#### Session Aim:

#### In this module we will look at understanding the implications of different learning styles on my teaching and the principles of universal design for learning



AFFECTIVE NETWORKS: THE WHY OF LEARNING



RECOGNITION NETWORKS: THE WHAT OF LEARNING



STRATEGIC NETWORKS: THE HOW OF LEARNING





## Learning Styles

Cures

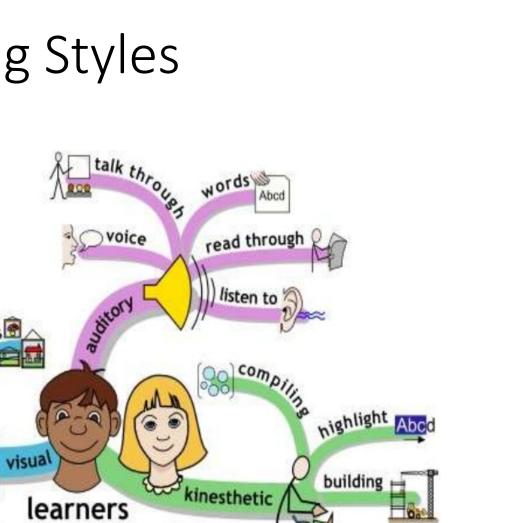
struture

links

map

colour 🚽

Ø



90

mark off

work through



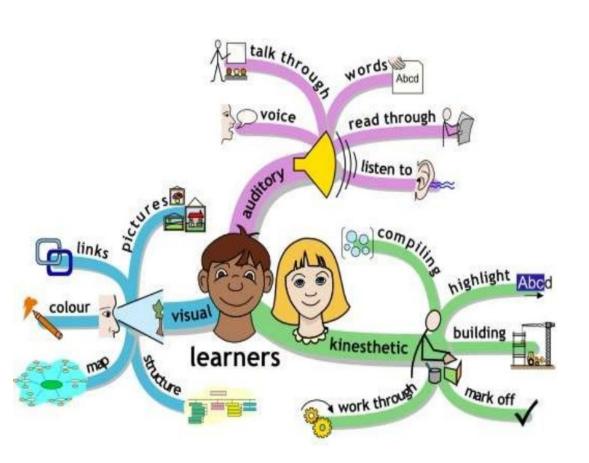




### Visual learners

- What is important to visual learners: graphs, diagrams, maps, illustrations, body language, images, videos, colour.
- Visual students remember visually (in images)
- They need quiet space to work things through.

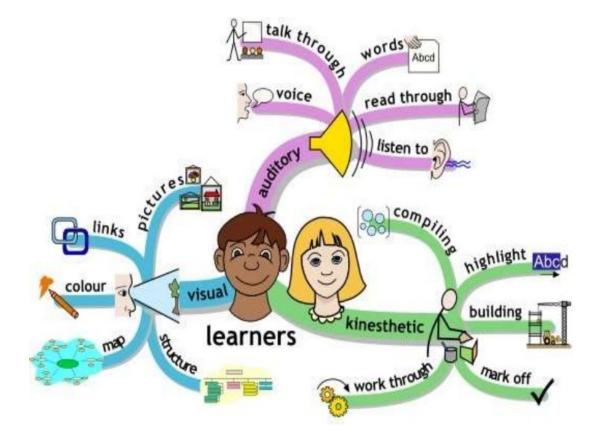




## Auditory learners

- The main way of learning is through hearing and speaking.
- Speaking, talking things through, reading, discussing, memorising and listening are important to them.
- They like working in groups and talk things over with others.



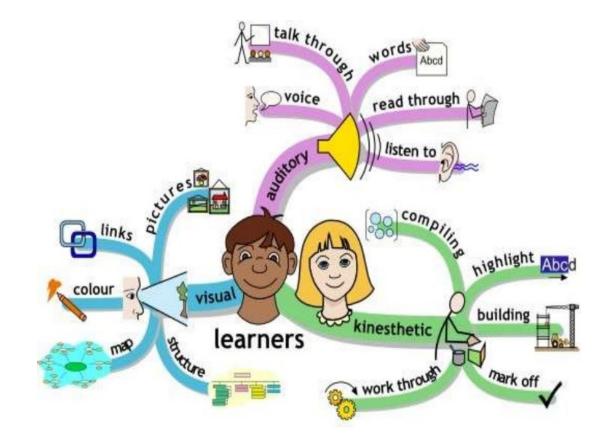


## Kinesthetic learners

- What is important to kinesthetic learners: making, compiling, building, working things through, exploring, doing, and discovering.
- Kinesthetic students remember the experience.
- They need to be engaged in activities that enable them to explore or act out.







### Brain Gym - Activity 1



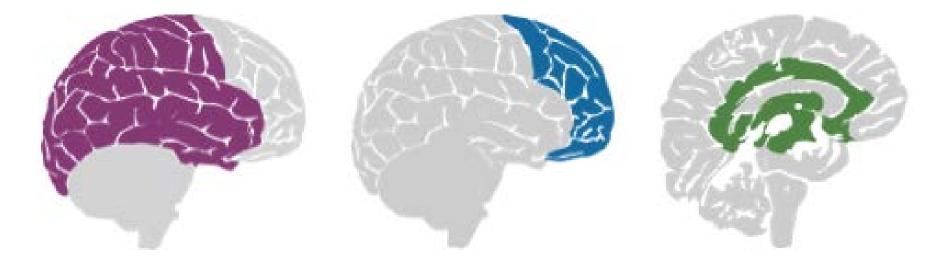


https://www.youtube.com/watch?v=IUUNCKF0YhQ



## Universal Design Principles Centre for Applied Special Technology (CAST)

- Principles 1: Provide Multiple Means of Representation
- Principles 2: Provide Multiples Means of Action and Expression
- Principles 3: Provide Multiple Means of Engagement



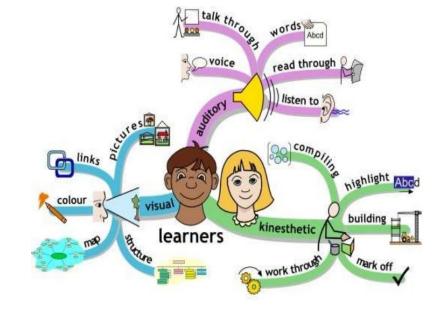
## CAST: Transforming education through Universal Design for Learning. <u>http://www.cast.org</u>

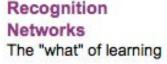


Watch the animation : https://youtu.be/bDvKnY0g6e4

## **Principles 1: Provide Multiple Means of** Representation

- Perception
- Language and symbol
- Comprehension









Recognition

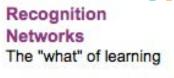


## Principles 1: Provide Multiple Means of Representation

- Consider Perception:
  - experience
  - motivational state
  - emotional state
  - physical

- ✓ Customisable display of information✓ Alternatives for auditory information
- ✓Alternatives for visual information

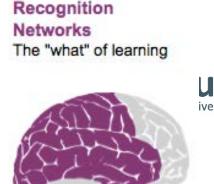
- Ensure that key information is equally perceivable by all learners
- Provide multiple options for the same information and allow adjustments e.g. sound levels, text size





## Principles 1: Provide Multiple Means of Representation

- Language and symbol consider learners' cultural difference
- ✓ Clarify vocabulary and symbols
- ✓ Clarify syntax and structure
- ✓ Support decoding text, mathematical notation, and symbols
- ✓ Promote understanding across languages
- ✓Illustrate through multiple media



## Principles 1: Provide Multiple Means of Representation

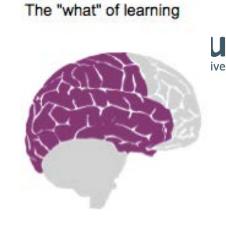
- Comprehension
- ✓Activate or supply background knowledge
- $\checkmark$  Highlight patterns, critical features, big ideas, and relationships
- $\checkmark$  Guide information processing, visualisation, and manipulation

✓ Maximise transfer and generalization









Recognition

Networks



## Brain Gym - Activity 2



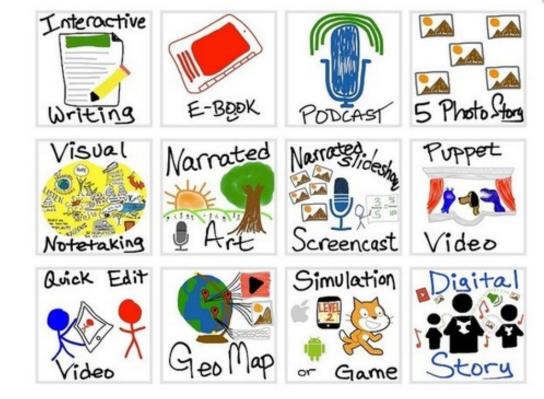


https://www.youtube.com/watch?v=t-H3aUjPP4E

Principles 2: Provide Multiples Means of Action and Expression

#### The aim is to have strategic, goal directed learners

- Physical Action
- Expressive skills and fluency
- Executive function



Strategic Networks The "how" of learning

## Principles 2: Provide Multiples Means of Action and Expression

#### • Physical Action

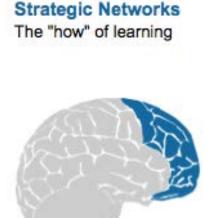
- $\checkmark$  Switches
- ✓Accessible settings
- ✓Voice recognition
- ✓ Guided access

#### Teachers' role is to optimise access for all of their learners





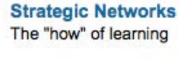




## Principles 2: Provide Multiples Means of Action and Expression

- Expressive skills and fluency provide students options for expression and communication different students can demonstrate their learning using different media e.g.
  - ✓ Video
  - ✓ Photo story
  - Animation
  - 🗸 Wiki
  - ✓ Presentation
  - ✓ Facebook page
  - ✓ Series of tweets

- ✓ Goal? Write an essay?
- ✓ Tool for planning and organising ideas e.g.
  - $\checkmark$  mind mapping
  - $\checkmark$  sticky notes
  - $\checkmark$  sound recording etc





## Principles 2: Provide Multiples Means of Action and Expression

#### • Executive function

- ✓ Guiding students in goal setting so that they don't aim too high or too low.
- ✓ Guiding students in support planning and strategy development
- $\checkmark$  Guiding students in managing information and resources
- $\checkmark$  Guiding students in monitoring their own progress











# Principles 3: Provide Multiple Means of Engagement

- Recruiting interest
- Sustaining efforts and persistence
- Self-regulation

**Affect** – this is crucial element to learning, different students have different level of engagement and motivation. This could be influenced by: neurological, cultural, personal relevance, subjectivity, background knowledge. Some learners are spontaneous and others might be frightened. Some may like to work alone, others prefer groups.

# Principles 3: Provide Multiple Means of Engagement

- Recruiting interest
  - ✓ Provide students with greater choice and autonomy
  - ✓ Provide students with options that enhance the relevance, value and authenticity
  - $\checkmark$  Provide students with options that reduce threats and distractions









# Principles 3: Provide Multiple Means of Engagement

- Sustaining efforts and persistence
  - ✓ Provide options that help students to stay motivated to reach their goals and objectives
  - ✓ Provide students with options that vary with levels of challenge and support
  - ✓ Provide options for students that foster collaboration and communication
  - ✓ Provide students with options that increase mastery-oriented feedback









## Principles 3: Provide Multiple Means of Engagement

- Self-regulation
  - ✓ Provide students with options that guide their personal goalsetting and expectations
  - ✓ Provide students with options that scaffold coping skills and strategies
  - ✓ Provide students with options to develop self-assessment and reflection











### Brain Gym - Activity 3





https://www.youtube.com/watch?v=MOUdmzaZrc8

## Summary



- ✓ Each learner is different.
- ✓The context within typical learning settings is 'limiting' and 'disabling.'
- ✓ By meeting the needs of learners who are disabled by typical learning contexts, we will meet the needs of everyone.

