europass

Teacher Academy

Date: 7th - 11th March 2022

The 4Cs: "Creativity, Critical Thinking, Communication and

Collaboration in Schools"



Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:00-10:30	9:00-10:30	14.00-15.30	14.00-15.30	9:00-10:30	
Introduction to the Trainer, school, and Dubli	Motivating students so that they can embrace the 4 C's Classroom	Creativity	Collaboration & Teamwork	Designing a student centered school & classroom	
10.30-10.45 Break	10.30-10.45 Break	15.30-15.45 Break	15.30-15.45 Break	10.30-10.45 Break	
10.45-12.15	10.45-12.15	15.45-17.15	15.45-17.15	10.45-12.15	
Student introductions and presentation of participants' schools	Communication and presentation skills	Critical Thinking & Decision making	Collaboration & Teamwork	Course Summary & Reflection	Cultural activities
12.15-12.30 Break	12.15-12.30 Break	17.15-17.30 Break	17.15-17.30 Break	12.15-12.30 Break	
12.30-14.00	12.30-14.00	17.30-19.00	17.30-19.00	12.30-14.00	
Why the 4C's? Models of Personal Development	Communication & Presentation skills	Integrating Creativity and Critical Thinking the the classroom	Usefool tools for measuring competences and behaviour	Closing ceremony and awarding of certificates	

Further information about the cultural activities are available on each location webpage.

Teacher Trainer: Jackie McCann

⊕ teacheracademy.eu
 ☑ info@teacheracademy.eu

Boyne Valley or Cliffs of Moer



WHY THE 4 C'S

21st century fluid work environment = need for a different educational approach



Turn to your neighbour

Interview each other asking the following questions.

- Country they are from
- Brothers or sisters?
- Children or nieces or nephews?
- Live in a house or apartment?
- Any Pets?
- Favourite Food
- Hobbies?

Each person now tells the rest of the group about their partner



Traditional education is knowledgebased



19th Century Industry requirements:

- ► Repetitive tasks
- ► Minimum thinking
- ► Able to follow instruction





Today machines are better than people in memorising and processing knowledge.

Todays workforce must be able to collaborate, think critically, be creative and communicate with their team in order to keep advancing the technology era

EDUCATION NEEDS TO ADAPT





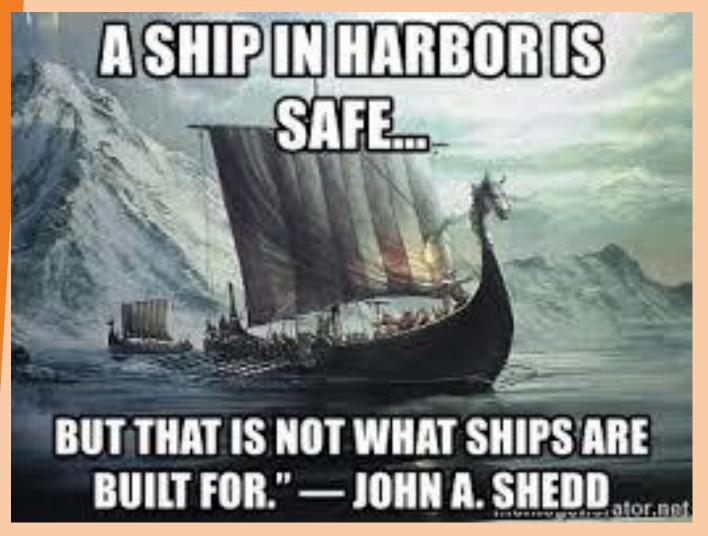
Can you think of anything that has not some form of technology in its making???



Even "manual labour" involves technology



This is why.....



How has technology impacted on your career since you started teaching?

We as educators need to leave the safe harbour and explore those C's.



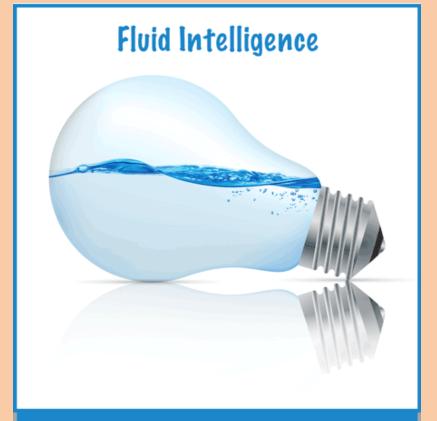
This is why.....



- All the easy problems have nearly been solved
- Need to take society from where it is now to where it has to go.
- ► The next great ideas wont just come from a few people but from each and every one of us.
- We need to Discover ways we can incorporate them into our teaching.
- ► Empower our students with the skills needed for the 21 Century and beyond to help form the world that they will be living in.

It will be a rough ride.....





While the school system is great for building "crystallized" intelligence (long term memory, basic knowledge, & vocabulary), "fluid" intelligence is king and ruler of the real world.

Fluid intelligence

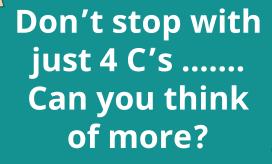
- ► Ability to come up with new ideas on the fly in the moment.
- ► Think our way out of problems



Communication

Collaboration Critical thinking

Creativity



- Enables students to increase their learning capabilities
- Are needed in a variety of situations and work settings, independent of the task, subject or discipline
- Prepare students for the increasingly complex life and work environments



Expectations

Please write down on the sticky notes provided:

3 x sticky notes specific 4C's exercise/tool you are already applying in your classroom (e.g. a method to stimulate critical thinking) → post under "3"

2 x sticky notes aspects of the 4C's you would like to optimise (personally or in your classroom) → post under "2"

1 x sticky note specific queries or needs you would like to resolve this week → post under "1"

Don't forget to add your name



MODELS OF PERSONAL DEVELOPMENT

Theory on how skill & character improvement can be achieved



Teachers are role models

- You are following students through pivotal stages of their development
- You are the adults that students spend most of their time with
- You are setting their standards for how a professional adult acts
- You inspire and encourage students to fulfil their potential and to strive for greatness
- The way you master and enact the 4C's yourself will greatly influence how your students will use these skills.



TUESDAY

Motivation

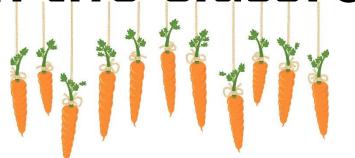
What will we do?

- Discussion class about how we are or are not motivated to teach
- How our students are or are not motivated to learn

What will you discover?

- You will see you are not isolated in your thoughts
- You will come away with some ideas on how to motivative yourself and also your students







Are your students motivated to learn? Break into groups and discuss what barriers you have encountered in your classroom regarding student motivation



How do you motivate your students?

While in your groups share ideas as to how you or your school motivate your students



Motivational Activity

Students

- Why are our students not motivated
- When do they become motivated?
- What strategies do you use in your school to motivate students

Teachers

What motivates us as educators
What de-motivates us as Educators
How do you keep yourself motivated
Is your school good at supporting you?



Student Classroom

- Not involved
- Lack confidence
- Low self esteem
- Insecure
- Tire very easily
- Grades/homework pressure
- Don't like to stay seated for too long
- Prefer internet games
- Peer to peer relationships focus on what is happening with their peers
- Bullying

Strategies

- Teenagers need empowered and treated as adults
- Technology good for children
- Increase student participation
- Give positive feedback
- Making the learning fun
- Keep learning fresh
- Teacher is update on IT and modern strategies
- Multi-disciplinary projects & Community project

motivated

- When they like the subject
- When they are successful feel of use,

What factors influence Motivation?

Teachers

- Strictly connected to the students success
- Love of the job keeps teachers the motivation
- Helpful colleagues
- Good Teamwork and friendship
- Conflicts with family/ parents
- Childrens basic needs not met. food, sleep, showers!
- Grades/homework pressure
- Teachers are aware of the importance of the role they play in society
- Schools need to do more to support teachers



What factors influence Motivation?

If students can't use digital equipment they become unmotivated

Mobile phone addiction

Student who must repeat a year

Family not interested in students learning

Parents not valuing teachers

Shyness and embarrassment with foreign language especially

Language barrier – they don't understand

Lack of goals

Lack of interest – school subjects are not relevant to their lives

Exam focused -

Lack of concentration - ADHD, etc

Puberty



What factors influence Motivation?

- Respect (first impression can be crucial)
- ► Fun/Humour Gamification of learning
- ▶ Belonging/Peer pressure
- ► Recognition & Rewards
- ► Routine and Structure
- ▶ Fear
- ► Curiosity
- Ownership/control
- Mastery/Challenge (Zone of proximal development by Lev Vygotsky)
- ► Delayed gratification
- Attitude/Having a goal
- ► Habit/routine
- ► Nutrition/Breakfast

- Sensory stimulus, hands-on, interactive
- Variety of tasks and methods (e.g. ICT)
- ▶ Sleep
- (inherent) Usefulness,Relevance
- Student-centricCommunication/Language
- Understanding and precise instructions
- ► Targeted breaks
- Lesson material
- ► Classroom layout



What factors influence Motivation?

Some subjects are compulsory – have to be there

Devices are distracting

Lack of knowledge

Expectations – low self esteem

Boredom – lack of sleep/interest

Learning to reach a result

Some activities they do not need to be motivated for

Teachers can be very boring

Books and material are outdated

Pace of learning can be too quick or too slow

Stress - out of the school environment/ home/ family

Atmosphere in classroom

•



How motivate children to learn

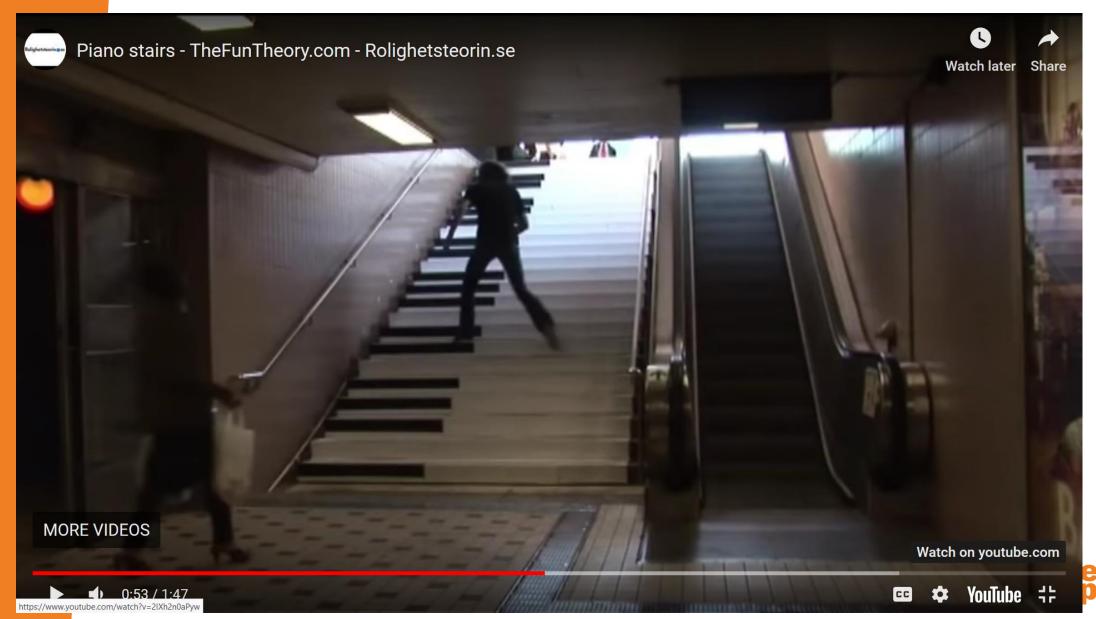
- Teachers expected to be super heros!!
- Turn the tech into a tool for education
- Study partners week students with strong students
- Pair mentoring
- One on one attention
- Project work can be very effective
- Create a nice atmosphere in the classroom



CREATE CLASS RULES WITH STUDENTS — GIVE THEM A SENSE OF OWNERSHIP



Fun



Re-arrange the desks to the desks to how you as a how you do group would group would like to see like to see

Student Centered Classroom

Creating class rules

Decide as a group what rules you would like in the classroom

When you have made up your rules, we will discuss the rules and negotiate how we can make them work for everyone.



Exercise

You are planning some group work about Irish history and culture with your class, but previous group work sessions raised some issues:

- Strong students like Peter, Mark and Lydia prefer to work on their own. Mark said previously: "I'm quicker when I do things on my own."
- Melanie, Sarah, Olivia and Anna are a tight-knit group. They like to work together, but not with other fellow students.
- Paul and Adam, two of the weaker students, were not contributing a lot during previous group work sessions. During the session, you had overheard Paul asking: "What is the point of this group work anyway?"
- → How do you use the various aspects of motivation to overcome these issues and get your students to work well as groups?



Exercise - Possible solutions

You are planning some group work about Irish history and culture with your class, but previous group work sessions raised some issues:

- → How do you use the various aspects of motivation to overcome these issues and get your students to work well as groups?
- Warm up games: Do a quick group game at the start of the lesson to show them that working in groups can be fun
- Table and seating arrangements: Arrange tables for group work, practice
 with students to sit at different tables each lesson (Quickest way: Define
 names/symbols for tables, hang up a list at the entrance to class with
 names allocated to each table)
- Give group enough work/tight deadlines so that they have to work collaboratively
- Allocate an even mix of weak and strong students to a team and split tasks accordingly. Make sure everyone "owns" their task, e.g. by giving separate pieces of information. (Alternatively, make strong and not-so strong groups, and vary the exercise difficulty level accordingly)
- Make sure everyone understands the instructions (e.g. 3 before me)

Ways of understanding: **Deductive vs Inductive**

Teacher provides

Students solve

Examples:

Rule or Theory

Deductive

Specific Examples or **Activities**

Math formula Grammar

Mpemba effect

Newborn

language

learning

- Predictable learning outcome
- Fast results

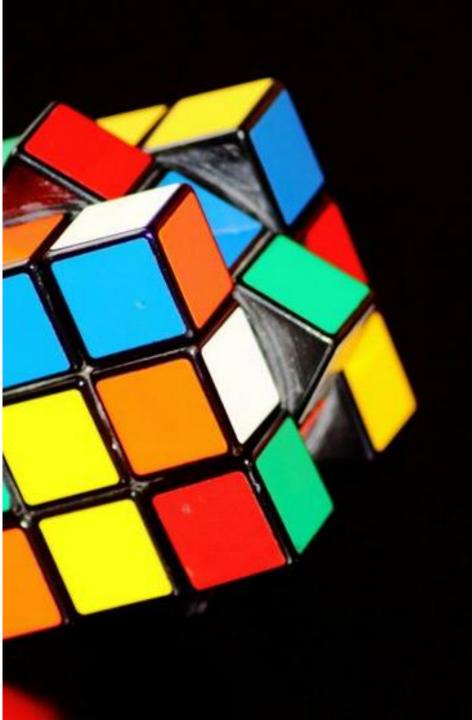
Specific Examples or **Inductive Activities**

Rule or Theory (Generalisation)

- Promotes analytical, critical thinking
- Motivating for students

Exercise: identify deductive teaching in your classroom - how would you teach it in an euro inductive style?





The 4C's:

Communication

- What makes a good communicator
- Student V Teachers
- Listening and speaking skills
- Non verbal Communication

Presented by: Jackie McCann



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Boyne Valley or Cliffs of Moher





Break into 2's

Interview each other asking the following questions. You <u>can not</u> take any notes

- Country they are from
- Brothers or sisters?
- Children or nieces or nephews?
- Live in a house or apartment?
- Any Pets?
- Favourite Food
- Hobbies?
- What makes them happy?



Give one word to describe your thoughts when you hear the word Communications

Mentimeter

spelling english writing spellings bored reading
writing lettres homework





Defining communication skills

To be a good communicator in the classroom what skills must you have?

- ▶ Discuss this question in your groups
- ► What areas of communication do your think you/ your students, or your school are weak in?
- ► What areas are you strong?
- ► When time is up, compare your findings with the other group



Findings sheet

Defining communication skills

Teacher

To be a good communicator, you need to:

To be able to listen then listen some more

Must show empathy

To have a good tone of voice

Emphasise Key words

Body language – entertainer

Speed of speech

Eye contact

REUSIABIT

Confidence

Social skills

Patience

Practise of skills

Use pro-active words

Tone of voice

Kind words

Guidelines and respect for others



COMMUNICATION

Listening and speaking Skills



"Most people do not listen with the intent to understand; they listen with the intent to reply"

Stephen R. Covey

"Mankinds greatest achievements have come about by talking and its greatest failures by not talking"

Stephen Hawking



Communication exercise

- The volunteer stands with his back to the class and gives instructions to the group on how to draw the picture he/she has been given.
- The group must follow instructions but can not ask questions.
- Now he/she turns around and gives the same instructions. This time the group can ask questions.



ANGRY

Sorry? You're sorry? Is that all you can say? I've been waiting here for 45 minutes in the freezing rain and all you can say is sorry? Why didn't you call me? You've got a mobile, haven't you? Or did you forget that too? You know sometimes I wonder why I bother with you at all



ADVERTISEMENT

Now there is a breakfast cereal to really get you going — "Eat and Go"! If you're feeling slow and sluggish in the morning, flush away those early dreary blues with ~"Eat and Go"! Full of natural goodness, iron and vitamins, "Eat and Go" is made from organic oats and wheat, grown especially on our own farms and scientifically tested in our laboratories. Get yourself up and out with "Eat and Go"



THE FILM PREVIEW

An evil has been unleashed upon the world, an evil older than history. In a race against time, a struggle against the odds, a battle with forces too great for mere mortals, only one man knows how to stop the destruction of the entire planet. Arnold Schickelgruber is John Steel. Power beyond imagination, terror beyond belief. A film that will chill you to the bone.



THE FAIRY STORY

Once upon a time, in a land far, far away, there lived a princess who was the most beautiful princess in all the land. She lived with her evil stepmother and two ugly sisters in a great big castle. One day, news went out across the land that a magnificent ball was to be given by the handsome Prince Charming.



COMMUNICATION

Non-verbal communication



Non Verbal Communication

https://youtu.be/ZQryUvMpGk8?t=412



Non-verbal activity – Draw & explain

- Participants assemble in groups.
- Then each group is asked to make a drawing.
- The other group will be interpreting the meaning of that drawing.



Non-verbal communication

Entering a room

3 people leave the room

Each person enters the room greets everyone non-verbally and sits down.



Collaboration exercise

- 2 groups
- 1 member each groups sits down with their back towards the whiteboard
- A word is written onto the whiteboard
- The other team members have to describe the word without saying the actual word (or part of it)
- The one who guesses the correct word first earns a point for the team
- Members rotate
- Variation: drawing onto the board



Communication reflection

Discuss in groups of 3:

What do you think about this video?

What aspect of your own communication skills would you like to improve?



Toast Masters





Critical thinking and Collaboration

Jackie McCann



Todays Content

- Six Hats Model Used when deep thinking is required to solve a problem.
- Jigsaw Model
 A method to assist students overcoming learning gaps
- Giving student feedback
 An exercise in critical thinking



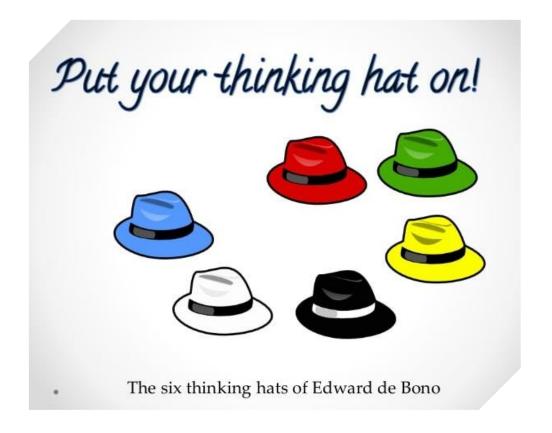
North, South, East and West: Compass points

And exercise in Understanding Preferences in Group Work

Similar to the Myers-Briggs Personality Inventory, this exercise uses a set of preferences which relate not to individual, but to group behaviors, helping us to understand how preferences affect our group work.

- The room is set up with one of the four signs on each wall —
- North, South, East and West.
- Participants are invited to go to the "direction" of their choice.
- No one is only one "direction," but everyone can choose one as their predominant one.
- Each "direction" answers the five questions on a sheet of newsprint. When complete, they report back to the whole group.
- Processing can include:
 - 1. Note the distribution among the "directions": what might it mean?
 - 2. What is the best combination for a group to have? Does it matter?
 - 3. How can you avoid being driven crazy by another "direction"?
 - 4. How might you use this exercise with others? Students?





6 Hats Model

Approach for individual or group work to facilitate thinking and problem solving

6 Hats Model



Helps accommodate parallel thinking



Facilitates problembased learning



Allows for analysis of project components



PROCESS



Blue Hat - Process

Thinking about thinking. What thinking is needed? Organizing the thinking. Planning for action.





Green Hat - Creativity

Ideas, alternatives, possibilities. Solutions to black hat problems.





White Hat - Facts

Information and data.
Neutral and objective.
What do I know?
What do I need to find out?
How will I get the information I need?





Yellow Hat - Benefits

Positives, plus points. Why an idea is useful. Logical reasons are given.





Red Hat - Feelings

Intuition, hunches, gut instinct. My feelings right now. Feelings can change. No reasons are given.





Black Hat - Cautions

Difficulties, weaknesses, dangers. Spotting the risks. Logical reasons are given.

How to use the 6 Hats in Your Classroom

- Case study analysis.
- **Discussion forums:** Structure the discussion forums around the six hats. Divide a forum into separate hats or ask students to post which hat they are "wearing" when they post their responses.
- **All students, same hat:** Ask all students to wear the same hat so they can dig deeper into an idea together.
- **Different groups, different hats:** Divide students into groups and assign each group a separate hat.
- **Switch hats:** Assign hats to students or groups and ask them to analyze a case, problem, or situation. Then, in the middle of the discussion, switch hats. Give students a different hat color and continue the same problem or situation..
- Guess the hat:
 - -How did you know which hat John was wearing?
 - -What kinds of words did he use that made you think he was wearing the [insert color] hat?
- Writing/speaking assignments based on hat color.
- Create a new hat:

White Hat - Facts



- Facts, objective information, data
- What does the data tell us? What facts do we know?
 - This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.





Red Hat - Emotions

- Feelings, emotions
- How are people feeling? What reactions do we need to anticipate?
 - This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.





Green Hat

- Creativity
- Creativity, generate new ideas
- What ideas haven't been tried before? What if...? Imagine this...
- This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.



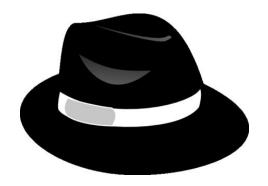




- Positives, advantages, benefits
- What are benefits or positive outcomes associated with this decision? What are the advantages of this solution?
 - This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.



Black Hat - Cautions

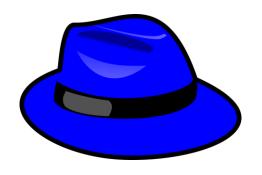


- Caution, concern, alert
- What should we be concerned about? Where should we proceed with caution?
 - This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.

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teacher academ

Blue Hat -Process



- What have we done so far, summaries, suggest next steps
- What has been done before? What impact did that decision have? Where should we go from here?
 - This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.



Let's help this teacher solve their biggest challenge..

• This teachers biggest challenge is talking to her student's parents about their struggles in the classroom.



Summary



Blue Hat	-	Manages thinking

White Hat - focuses on facts, information, objective thinking

Safe Thinking, points out potential risks and potential problems with reasons

Yellow Hat - Optimistic Thinking, points out pros and benefits with reasons

Green Hat - Creative Thinking, Removes risks and problems and provides creative solutions

Red Hat - Gut feeling, emotions, instinct reaction to problem

Exercise

- Analyse the following opinion using the following different thinking hats
- Red Hat- Feelings, how does it make you feel? Why?
- Yellow Hat- positive aspects
- Black Hat- risks/cautions
- White Hat- what are the facts?
- Green Hat- how would you change this title to make it better?



Six Thinking HatsQuick Summary





Blue Hat - Process

Thinking about thinking. What thinking is needed? Organizing the thinking. Planning for action.





White Hat - Facts

Information and data.
Neutral and objective.
What do I know?
What do I need to find out?
How will I get the information I need?





Red Hat - Feelings

Intuition, hunches, gut instinct. My feelings right now. Feelings can change. No reasons are given.





Green Hat - Creativity

Ideas, alternatives, possibilities. Provocations - "PO". Solutions to black hat problems.





Yellow Hat - Benefits

Positives, plus points. Logical reasons are given. Why an idea is useful.





Black Hat - Cautions

Difficulties, weaknesses, dangers. Logical reasons are given. Spotting the risks.

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Reflection

- How was the discussion you had using the Six Hats different from your typical discussions?
- How might it help you discuss difficult topics or make decisions in the future?



THE JIGSAW MODEL

A method to assist students overcoming learning gaps



Amgen Biotech Experience

Bioethics workshop

Scientific Discovery for the Classroom

Objective: Create a campaign poster either for or against the establishment of a national database of DNA and genetic profiles of every citizen.

Implementation: Students form 6 groups which read through and discuss different pieces of relevant information. One student from each group is then assigned to tables to draw either a Yes or a Novote poster. Posters are presented to the other students, and all students vote for or against the establishment of the DNA and genetic database.

Learning outcome: Students learn to deliberate about biotechnological advances and how they can create both useful applications and ethical issues when seen in the context of society.

Bioethics workshop

Amgen Biotech Experience

Scientific Discovery for the Classroom



Neuroplasticity What is it exactly

https://youtu.be/ELpfYCZa87g

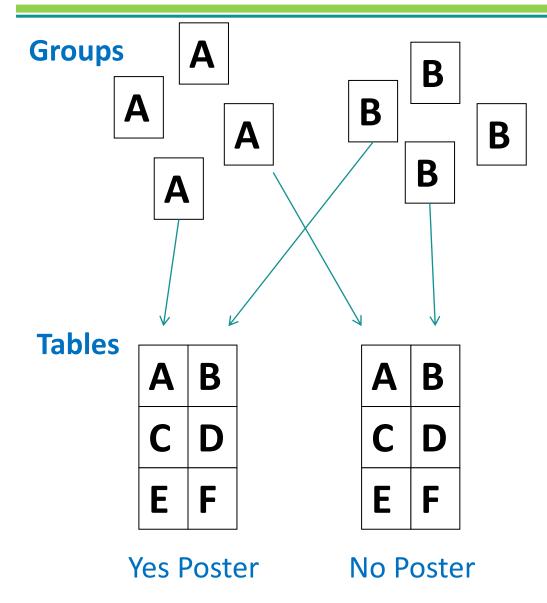
- How does the video impact on your views regarding Neuroplasticity
- Using some of the techniques you discovered during the week to create an activity that you could use in your class
- The idea is to explain the concept of Neuroplasticity to your students in a simpler format than that of the video



Bioethics workshop

Amgen Biotech Experience

Scientific Discovery for the Classroom



- Allows for integration of large amounts of information
- Everybody is compelled to contribute their "expert" knowledge
- Poster topic is given, but content is created independently by students

CONSTRUCTIVE FEEDBACK



Austin Butterfly

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

Rules for constructive feedback

- Be specific
- Start with something positive
- Make suggestions how to improve
- Comment on the work, not the person
- Give them opportunity to continue
- Don't include all things that incorrect
- Focus on the progress



The Parent Teacher meeting: Roleplay activity

The teacher is giving feedback about little Johnny, who is good in Math and drawing, but is falling behind in his reading and writing. You feel he needs to practice these skills more at home. He is also quite disruptive in the class.

The parent is defensive and easily offended

- Firstly give destructive feedback (what you would really like to say!!)
- Now give the same feedback but in a constructive manner.

