





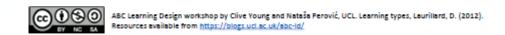
## Promote Active Learning With ABC Learning Design

### **AULTC** presentation: Mary Jacob

adapted from Clive Young and Nataša Perović, UCL Digital Education Welsh (Cymraeg) translation by Dewi Parry, Cardiff University

The 2018 ABC LD Toolkit part-supported by HEFCE





## Introduction – 15 mins

Active learning

<u>Video</u>

ABC Learning Design overview

Consider doing things beyond your usual 'go-to' options

Chickering, A. W., Gamson, Z. F., Poulsen, S. J., & Johnson Foundation (Racine, Wis.). (1987). <u>Seven principles for good practice in undergraduate education</u>. Racine, WI: Johnson Foundation.

#### 3. Uses Active Learning Techniques

Learning is not a spectator sport. Students do not learn much just by sitting in classes 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.** 

Bonwell, C. C., & Eison, J. A. (1991). <u>Active learning: Creating excitement in the classroom</u>. Washington, D.C: School of Education and Human Development, George Washington University.

Students must do more than just listen: They must read, write, discuss, or be engaged in solving problems...

Students must engage in such higher-order thinking tasks as analysis, synthesis, and evaluation. Within this context, it is proposed that strategies promoting active learning be defined as instructional activities involving students in doing things and thinking about what they are doing.

Chi, M. T. H. (January 01, 2009). <u>Active-Constructive-Interactive: A Conceptual Framework for Differentiating Learning Activities</u>. *Topics in Cognitive Science*, 1, 1, 73-105.

Interactive activities are most likely to be better than **constructive** activities, which in turn might be better than **active** activities, which are better than being **passive**.

Wiggins, B. L., Eddy, S. L., Grunspan, D. Z., & Crowe, A. J. (2017). <u>The ICAP Active Learning Framework Predicts the Learning Gains Observed in Intensely Active Classroom Experiences</u>. (AERA open.)

STEM classrooms (science, technology, engineering, and mathematics) in postsecondary education are **rapidly** improved by the proper use of active learning techniques.

## **ABC Learning Design video**

• Video

Hands-on, card-based approach to curriculum design:

- Built on research from JISC Viewpoints and UCL Institute of Education, adapted for UCL
- Include students in design teams for a Students as Partners ethos
- Used across UK, Erasmus-funded project across Europe
- Welsh materials available

#### Classic 90-minute session

# Module information and graphs

- Tweet your module
- Graph learning activity types
- · Graph online/face-to-face blend

#### Storyboard

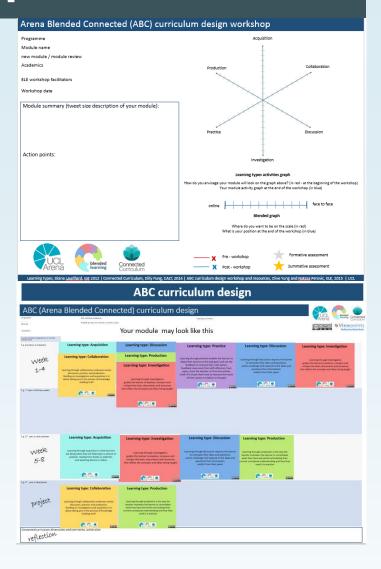
- Storyboard the activities
- Align activities and assessment

## Revise graphs

What has changed? Why?

**Actions** 

What next?



| ABC curriculum design |
|-----------------------|
| Workshop action plan  |







| Objectives                  |  |
|-----------------------------|--|
| E.g. pre entry or induction |  |
|                             |  |

#### Arena Blended Connected (ABC) learning design workshop

Programme Arena digital

Module name Use of videos in teaching

new module module review

Academics Anna Moore, Jon Grabol

ELE workshop facilitatorsCY, NP

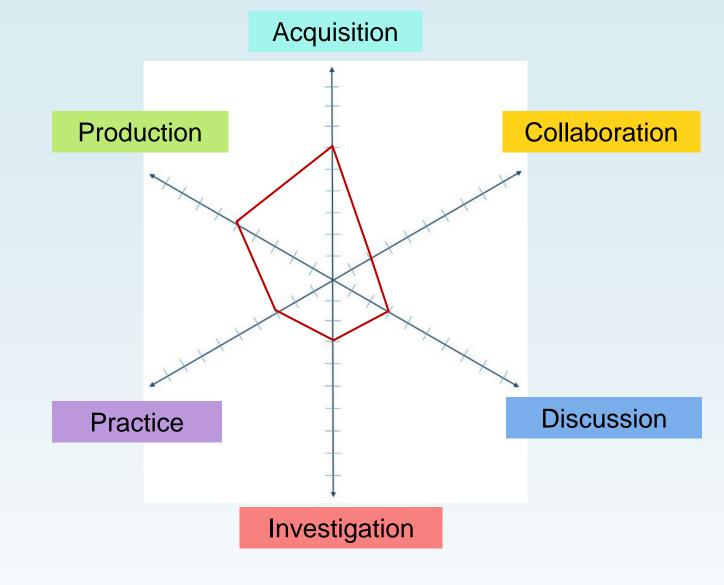
Workshop date 5th June 2015

Module summary (tweet size description of your module):

All you need to know about use of videos in 21st century teaching



@ABC\_LD



#### Learning types activities graph

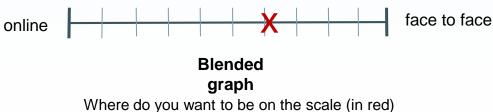
How do you envisage your module will look on the graph above? (in red - at the beginning of the workshop)

Your module activity graph at the end of the workshop (in blue)

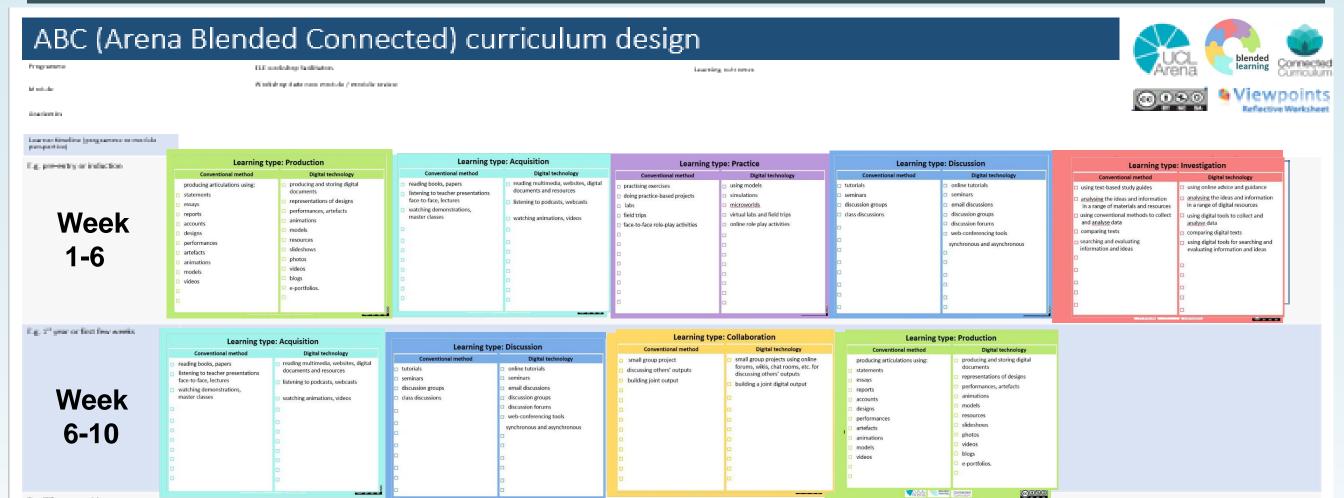








Where do you want to be on the scale (in red)
What is your position at the end of the workshop (in blue)

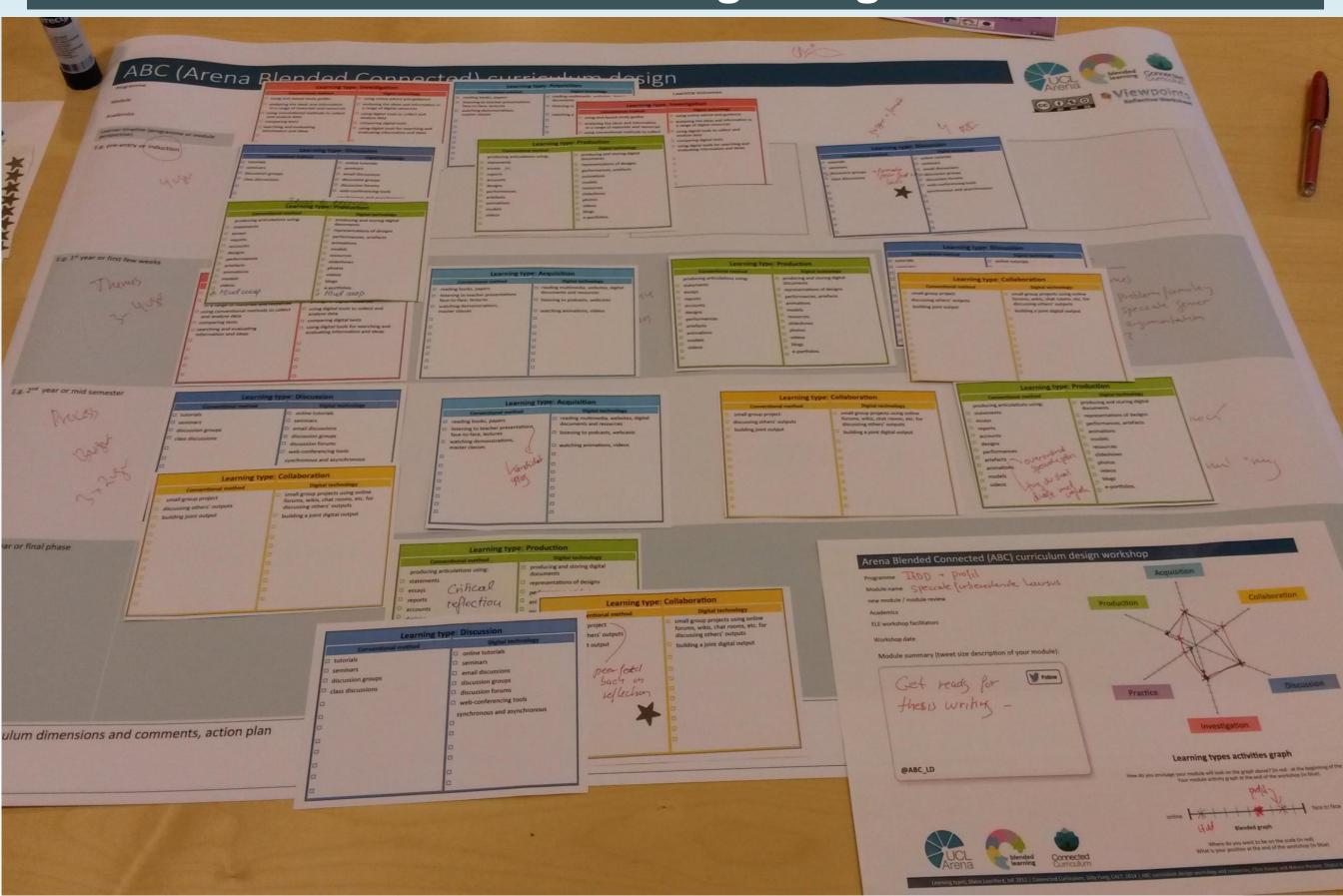


Once happy with your module design, turn the cards to the other side and select learning activities

✓ Select learning activities

Connected curriculum dimensions and comments, action plan

E.g. 2" year or mid semester

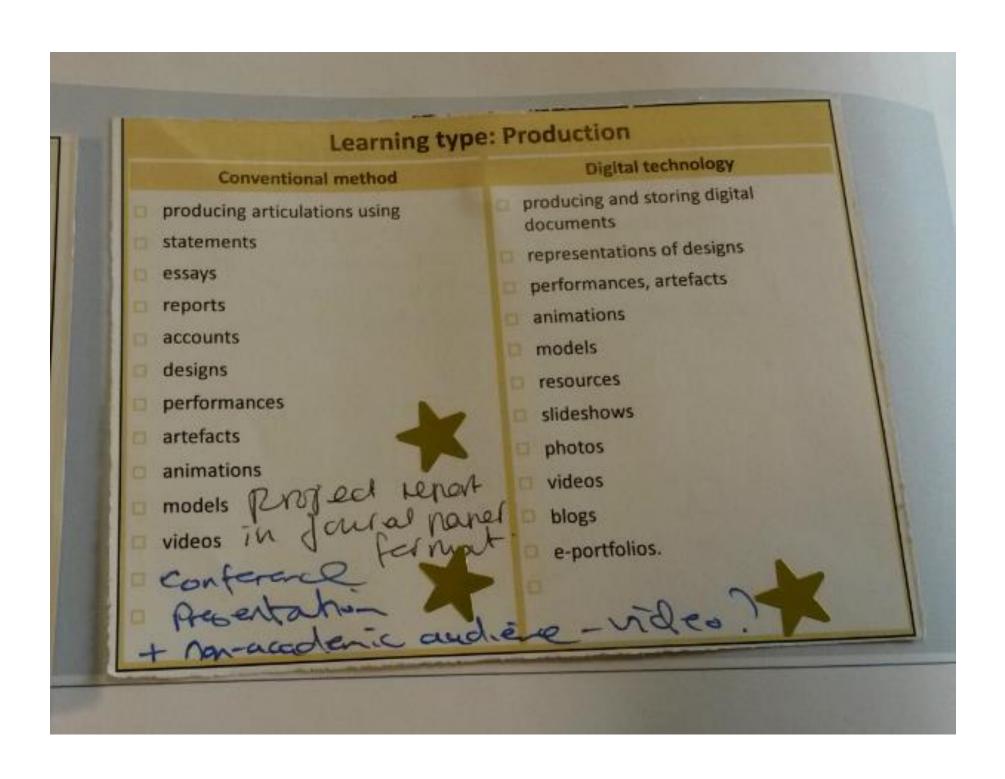


## Align activities and assessment

| Learning type: Practice                           |   |  |
|---|---|--|
| Conventional method                               | Digital technology                              |  |
| <ul> <li>practising exercises</li> </ul>          | using models                                    |  |
| <ul> <li>doing practice-based projects</li> </ul> | □ simulations                                   |  |
| <b>√</b> labs                                     | □ microworlds                                   |  |
| □ field trips                                     |   |  |
| ☐ face-to-face role-play activities               | <ul> <li>online role play activities</li> </ul> |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |

Select formative ( ) and summative assessment ( )

## ABC learning design Align activities and assessment



#### Arena Blended Connected (ABC) learning design workshop

Programme Arena digital

Module name Use of videos in teaching

new module module review

Academics Anna Moore, Jon Grabol

ELE workshop facilitatorsCY, NP

Workshop date 5th June 2015

Module summary (tweet size description of your module):

All you need to know about use of videos in 21st century teaching

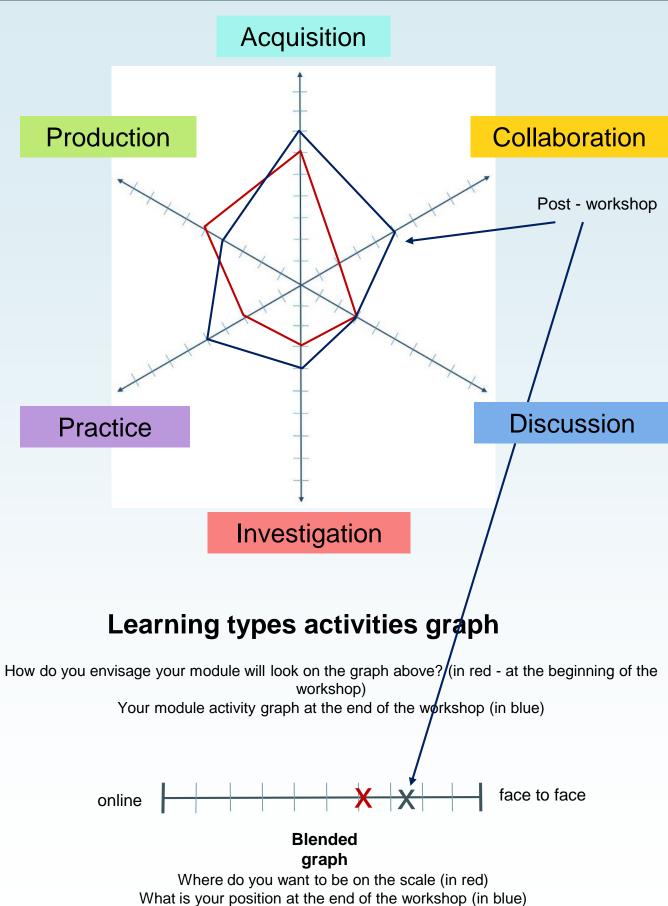


@ABC\_LD









## Arena Blended Connected (ABC) curriculum design workshop

Programme Demoulus culear Module name Peripheral deine Acquisition new module / module review Academics Production Collaboration **ELE** workshop facilitators Workshop date A By # Frame liology through
physiology to diseases affective
peripheral neves: a & comprehensi
integrated heaving experience Discussion - Pley scological properties of How do you envisage your module will look on the graph above? (in red- at the beginning of the workshop)

- particle durches from perties of how do you envisage your module will look on the graph above? (in red- at the beginning of the workshop)

Your module activity graph at the end of the workshop (in blue)

- climical features

- diognosity

Blended graph Action points: Where do you want to be on the scale (in red) What is your position at the end of the workshop (in blue)

Pre - workshop

Post - workshop

Formative assessment

Summative assessment

| Acquisition   |   |
|---|---|
| Conventional method   | Digital technology  |
| <ul> <li>reading books, papers</li> <li>listening to teacher presentations face-<br/>to-face, lectures</li> </ul> | <ul><li>reading multimedia, websites, digital documents and resources</li><li>listening to podcasts, webcasts</li></ul> |
| watching demonstrations,<br>master classes  | watching animations, videos   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

| Investigation  |  |
|--|--|
| Conventional method  | Digital technology   |
| using text-based study guides  | using online advice and guidance   |
| analysing the ideas and information<br>in a range of materials and resources | analysing the ideas and information in a<br>range of digital resources                         |
| using conventional methods to collect and analyse data                       | using digital tools to collect and analyse data  |
| comparing texts  | comparing digital texts  |
| searching and evaluating information and ideas                               | <ul> <li>using digital tools for searching and<br/>evaluating information and ideas</li> </ul> |
|  |  |
|  |  |
|  |  |
|  |  |

| Discussion          |                              |
|---------------------|------------------------------|
| Conventional method | Digital technology           |
| ☐ tutorials         | online tutorials             |
| seminars            | seminars                     |
| discussion groups   | email discussions            |
| class discussions   | discussion groups            |
|                     | discussion forums            |
|                     | ☐ web-conferencing tools     |
|                     | synchronous and asynchronous |
|                     |                              |
|                     |                              |
|                     |                              |
|                     |                              |

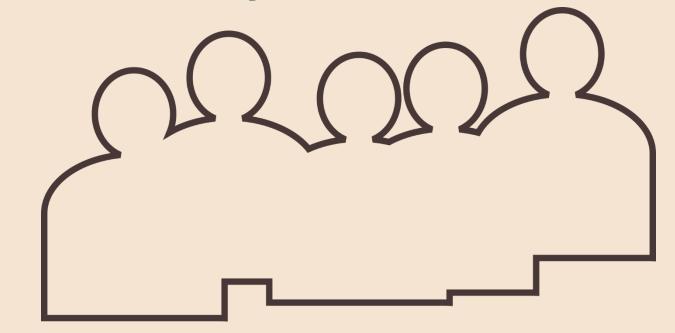
| Collaboration              |   |
|----------------------------|---|
| Conventional method        | Digital technology  |
| small group project        | small group projects using online forums,<br>wikis, chat rooms, etc. for discussing |
| discussing others' outputs | others' outputs   |
| building joint output      | building a joint digital output   |
|                            |   |
|                            |   |
|                            |   |
|                            |   |
|                            |   |
|                            |   |
|                            |   |

| Practice                            |   |
|-------------------------------------|---|
| Conventional method                 | Digital technology  |
| practising exercises                | using models  |
| ☐ doing practice-based projects     | simulations   |
| □ labs                              | microworlds     micro |
| ☐ field trips                       | ☐ virtual labs and field trips  |
| ☐ face-to-face role-play activities | online role play activities   |
|                                     |   |
|                                     |   |
|                                     |   |
|                                     |   |
|                                     |   |
|                                     |   |

| Production                     |   |
|--------------------------------|---|
| Conventional method            | Digital technology                      |
| producing articulations using: | producing and storing digital documents |
| statements                     | representations of designs              |
| essays                         | performances, artefacts                 |
| reports                        | animations                              |
| accounts                       | ☐ models                                |
| designs designs                | resources                               |
| performances                   | slideshows                              |
| ☐ artefacts                    | photos                                  |
| animations                     | □ videos                                |
| □ models                       | □ blogs                                 |
| uideos videos                  | e-portfolios.                           |
|                                |   |
|                                |   |
|                                |   |



## Group Activity – 25 mins



#### Split each row into two groups (3-4 people)

Choose a scenario and draft tweet – 5 mins Create a learning activity graph and blend graph – 5 mins Select useful cards, talk about activities – 10 mins Redraw graphs – 5 mins



## Sharing – 10 mins

Look at charts on other tables What new ideas did you gain?

## What we can offer

#### **Learning and Teaching Enhancement Unit**

Consultation and training

Facilitated design session

Contact thestaff@aber.ac.uk