

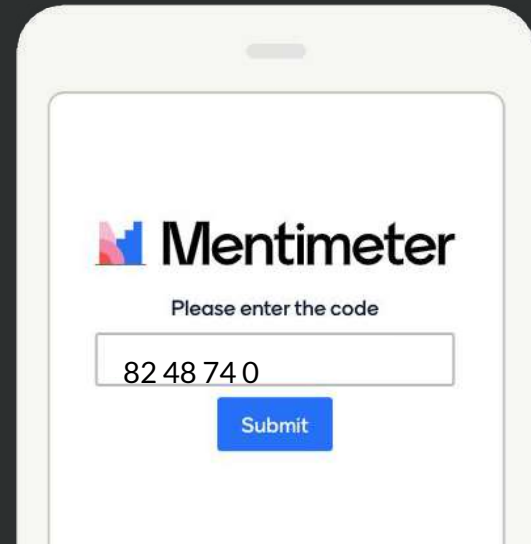
Waiting for the webinar to begin...



Please go to **menti.com**, input code

82 48 74 0

and answer the questions you see!



Formative Assessment: Improving Learning and Engaging Students

Tahnja Wilson, Educator, MBA/MIM

ctahnjawilson@gmail.com

@TahnjaWilson

November 2020



Attribution 4.0 International (CC BY 4.0)



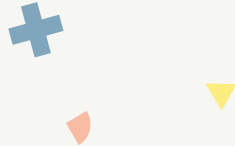
Agenda

- Assessment - What is it?
- Formative and Summative Assessment
- Importance of Feedback
- Assessment Characteristics
- Formative Assessment Tools
 - Kognity
 - Nearpod
 - Flipgrid
 - H5p
 - Mentimeter
- Additional Resources

Note: Open up a tab and go to menti.com, punch in code **82 48 74 0** and respond to the questions you see.

Assessment - What is it?

- Measure knowledge and mastery of competencies and skills
- Simple, but is it that straightforward?
Does it truly gauge knowledge acquisition and mastery?



Note: Open up a tab and go to menti.com, punch in code **82 48 74 0** and respond to the questions you see.

Assessment - What is it?

Purpose

- Snapshot?
- Mastery?
- Growth?
- Flexible across learners?
- Gradated/ Yes/No, Pass/Fail?
- Return to assessment or one-time event?
- Use? For teacher or for student?

Note: Open up a tab and go to menti.com, punch in code **82 48 74 0** and respond to the questions you see.

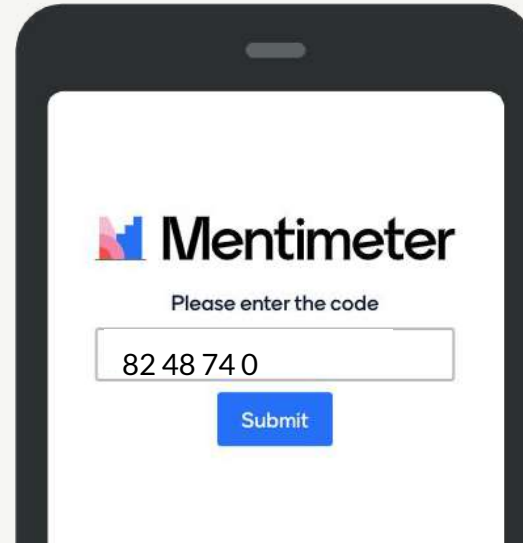
Assessment - What is it?

[Why do you assess?](#)

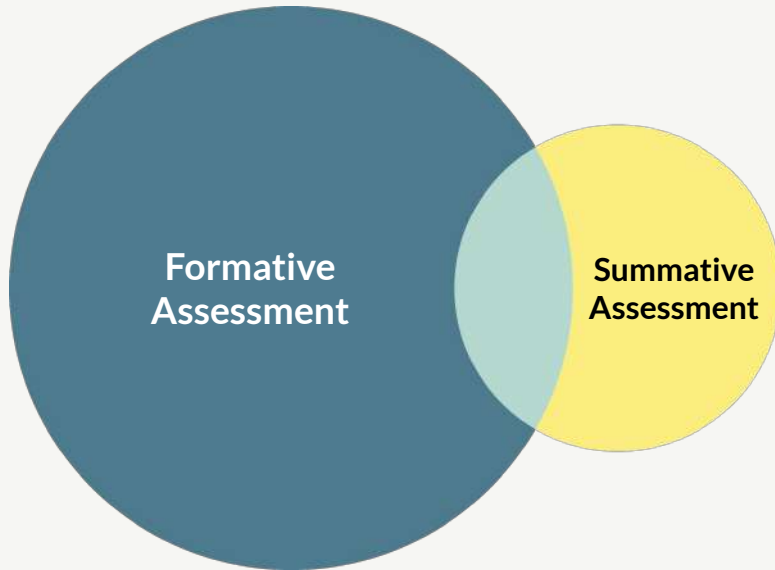
Go to
www.menti.com

Enter the code

82 48 74 0



Types of Assessment



Formative “During/ongoing Evaluation”	Summative “End Evaluation”
Observation, class discussion	Standardized tests
Exit slips, muddiest point, concept maps, etc.	End of unit/chapter tests
Guided practice, quizzes - knowledge checks, checklists, rubrics	Final projects (infographics, podcasts, videos, book reports, living museum, etc.)
Portfolio, journal, progress notes, research proposal (during)	Portfolio, research paper (end)

Feedback as a KEY Element of Formative Assessment

“Academic feedback is more strongly and consistently related to achievement than any other teaching behavior....This relationship is consistent regardless of grade, socioeconomic status, race, or school setting.

When feedback and corrective procedures are used, most students can attain the same level of achievement as the top 20% of students.”

-- Bellon, Bellon & Blank

- To keep students on course so they arrive successfully at their predetermined destination.

-- W. Fred Miser

“It is one thing to collect feedback about students’ progress, but if you simply collect this feedback and never use it to adjust your instruction, then you are collecting it in vain. The data you receive from grading your assignments and assessments will give you feedback about the effectiveness of your own instruction.”

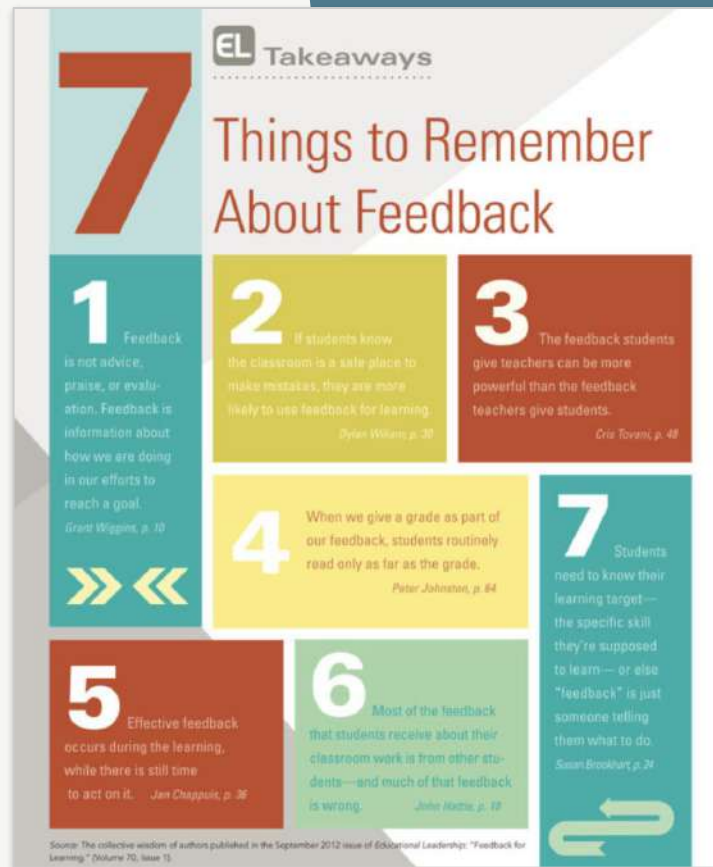
-- Robyn R. Jackson

The research...shows conclusively that formative assessment does improve learning. The gains in achievement appear to be quite considerable, and ... amongst the largest ever reported for educational interventions. As an illustration of just how big these gain are, an effect size of 0.7, if it could be achieved on a nationwide scale, would be equivalent to raising the mathematics achievement score of an ‘average’ country like England, New Zealand or the United States into the ‘top five’ after the Pacific rim countries of Singapore, Korea, Japan and Hong Kong.

-- Paul Black and Dylan William

Characteristics of Good Feedback

- Effective feedback occurs during the learning, while there is still time to act on it.
- The feedback students give teachers can be more powerful than the feedback teachers give students.



Formative Assessment





- Performance Overview
- Individual Coaching

Performance Overview

IBDP Biology SL (Period 1) (12 students)

Each cell shows the percentage of total questions answered correctly from all questions taken by the student. Questions included are from Question Assignments, Strength Tests and Strength Battles.

2020-02-24 to 2020-02-28

No questions No activity 0-75% 72-92% 93-100%

Book Topics

	1 Cell biol...	2 Molecul...	3 Genetics	4 Ecology	5 Evoluti...	6 Human ...	A Option...	B Option...	C Option...	D Option...	IA Intern...	P Practicals
Rachel Adams	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Johan Bernadotte	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Hugo Cabret	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
James Denkin	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Dennis Franklin	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Melissa Gilbert	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Marcus James	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Johan Maugham	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Lester Nygaard	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Hugo Prete	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Isobel Reyes	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
Nicholas Straus	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0

Rachel Adams

Last active in IBDP Biology SL: 2 days ago

5 Latest sections

1.2.2 1.1.7 1.2.1 1.2.4 1.2.3

5 Latest assignments

✓ ✓ ✓ ✓ ✗ ✓

Strength tests and Battles

161

Textbook statistics

Assignments statistics

Strength tests and battles

Textbook statistics

Sections only show if the student has opened the section. Sections turn green when they have been completed.

Total sections completed: 45 / 383

Section status	Section name	Last opened	First completed
Completed	1.2.2 Eukaryotes	2020-03-11	2019-01-14
Opened	1.1.7 Stem cells	2020-02-25	n/a
Opened	1.2.1 Prokaryotes	2020-02-25	n/a
Completed	1.2.4 Checklist	2019-11-20	2017-12-06
Opened	1.2.3 Electron microscopy	2019-11-20	n/a



- Tests
- Battles

Strength test

Exam-style questions

Strength battle

Strength battle

Battles won: 5/46

Battle an opponent, or view your current and past battles.

Create new battle

1. Pick an opponent

☐ Battle the Kogbot

☒ Battle a classmate

✓ -- Choose a classmate --

Ella Baker

Sandra Geller

Jenny Lee

Juan Rodriguez

Vijaay Sharma

Choose a topic

3. Start Battle!

Start battle

Current and past battles

Current battles

You have no current battles. Start one now!

+ Past battles

Knowledge

Overview

Book

Notebook

Practice

Strength test

Exam-style questions

Strength battle

Strength test

Question 1

Somebody who always sees the glass as half full rather than half empty is an optimistic person.

Optimism is not really an emotion itself but is, perhaps, the result of one of the other affects that we have seen in this Subtopic. Which is the **least likely** to be an active affect in creating an optimistic person?

Emma

Kogbot

IBDP Theory of Knowledge - Areas of Knowledge

Time left: 0:41s

Question 1

The Periodic Table of the elements is an example of the use of _____ within the natural sciences.

☒ charts

☐ inductive logic

☐ experiments

☐ convention



FLIPGRID.

- Video discussion tool
- Free educator pricing with upgrade option; free to students
- Worldwide, based in Minnesota
- Content partnerships: [Lego](#), [Minecraft](#), [Made by Dyslexia](#), etc.
- @flipgrid
- Students access via link, QR code, embed code, or share to Teams, Google Classroom, and Remind



Tips for Engaging Students and Families

PreK to Middle School

- Daily learning reflections
- Reading and book talks
- STEM thinking
- Project demonstrations
- Fluency and phonics

High School

- Daily video journal
- Project presentations
- Language learning
- Peer review
- Persuasive debate


University

- Digital office hours
- Socratic discussions
- Social presence
- Research presentations
- Project-based learning

Family Learning

- Reading together
- Family interviews
- Messages of positivity
- At-home experiments
- Shared physical exercise

FLIPGRID.



Audience
Middle School (ages 11-13)

Subject
Physical Education / Health

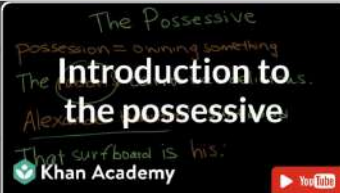
Saved to
0 collections

Engagement
17 hours and 18 minutes

Used
33

Quarantine Check-In

Send in a video (1) describing how you have been staying busy during quarantine! (2)
What is your favorite physical activity and how have you improved over time? (3)
Describe the effects physical activity (or lack



Audience
Elementary School (ages 5-10)

Subject
Language Arts

Saved to
0 collections


Engagement
4 hours and 2 minutes


Used
11

Introduction to the possessive

Possessive Nouns Challenge

1. Write a possessive noun question on a whiteboard or your iPad.
2. Record yourself reading the problem.
3. Make sure you know the correct answer to your problem, but don't post it.
4. Once you have submitted your problem you can answer everyone's questions on a whiteboard or your iPad.

 [KACI POWERS](#)



Audience
All / Everyone

Subject
Math


Saved to
0 collections

Engagement
33 minutes and 58 seconds

Used
4

My Strengths and Weaknesses in Math

You have 90 seconds to tell me one or more of your strengths and one or more weaknesses you feel you may have in math.

 [Amy Montgomery](#)

Integration Notes

Use this at the beginning of the year to find out about your students strengths and weaknesses in math so that they can set goals.

Record yourself explaining your addition strategy and how it helped you solve the equation.

My strategy was _____. It helped me solve the equation by _____.




 **Ramesh Laungani**
[@DrRamBio](#)

Use 7 of 24: College students explain THEIR research projects in 3-minutes (or less) as they practice & develop their [#SciComm](#) skills & their elevator pitches

[#FlipgridLIVE](#) [#FlipgridForAll](#)

Students explain THEIR Research



Professional training for students

11:15 PM · Jun 28, 2020

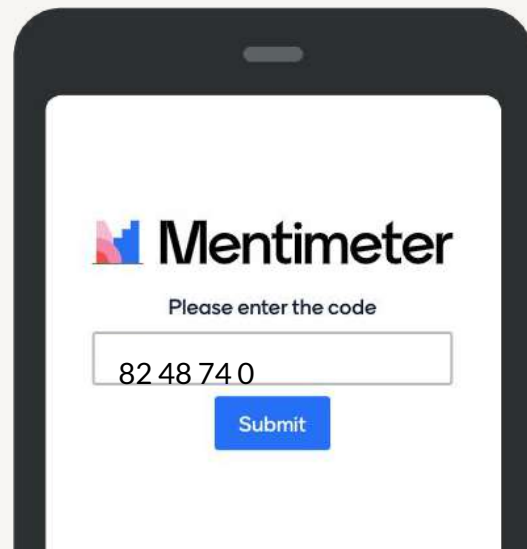


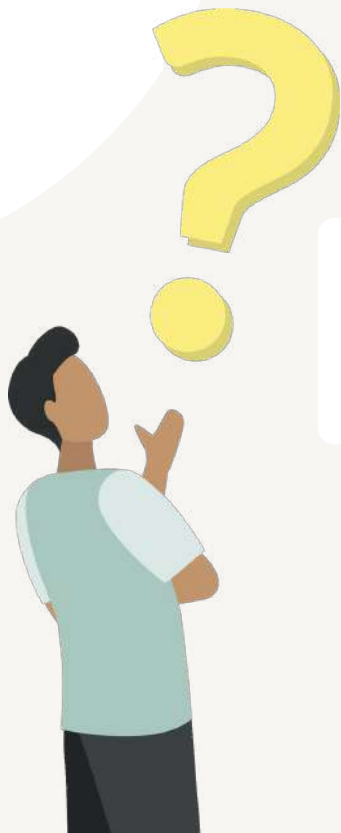
- Interactive presentations with live polls, quizzes, word clouds, Q&As (13 question types)
- Free, upgraded plans available
- Worldwide, based in Sweden
- Students access via code
- @mentimeter
- Activities:
 - Word clouds
 - Live polls
 - Quizzes
 - Open Answer

Go to
www.menti.com

Enter the code

82 48 74 0





What is your biggest challenge for the
2020/2021 school year?



- Interactive instruction and assessment
- Free with paid levels
- Worldwide, based in Florida
- Students access via code or lms
- @nearpod
- Integrations: images, videos, web, PhET, VR, 3D objects, Sways, PDFs, Flipgrid, etc.
- Post session reporting

Use Nearpod for:

- Your whole lesson
- A video **NEW!**
- Quick formative assessment
- Gamified activities

Convert your:

- PowerPoint
- Google Slides
- PDF
- YouTube video **NEW!**
- Video file **NEW!**

OR

Save time:

8,500+ premade, interactive lessons & videos **NEW!**

Review student work:

Post-session reports

Teach three ways:

- Live Participation
- Student-Paced
- Front of Class **NEW!**

Go to join.nearpod.com, punch in code

VQMT6

and answer the question presented.



Formative Assessment types



Draw It



Poll



Fill in the Blanks



Open-Ended
Question



Collaborate!



Matching Pairs



Quiz



VR Field Trips



Time to Climb

Go to join.nearpod.com, punch in code **VQMT6** and answer the question presented.



Formative Assessment Ideas

Post your assessment successes!

Share



Students join with this CODE at join.nearpod.com or in the app

VQMT6



Make this a Zoom meeting



Email



Social



Link



Google
Classroom



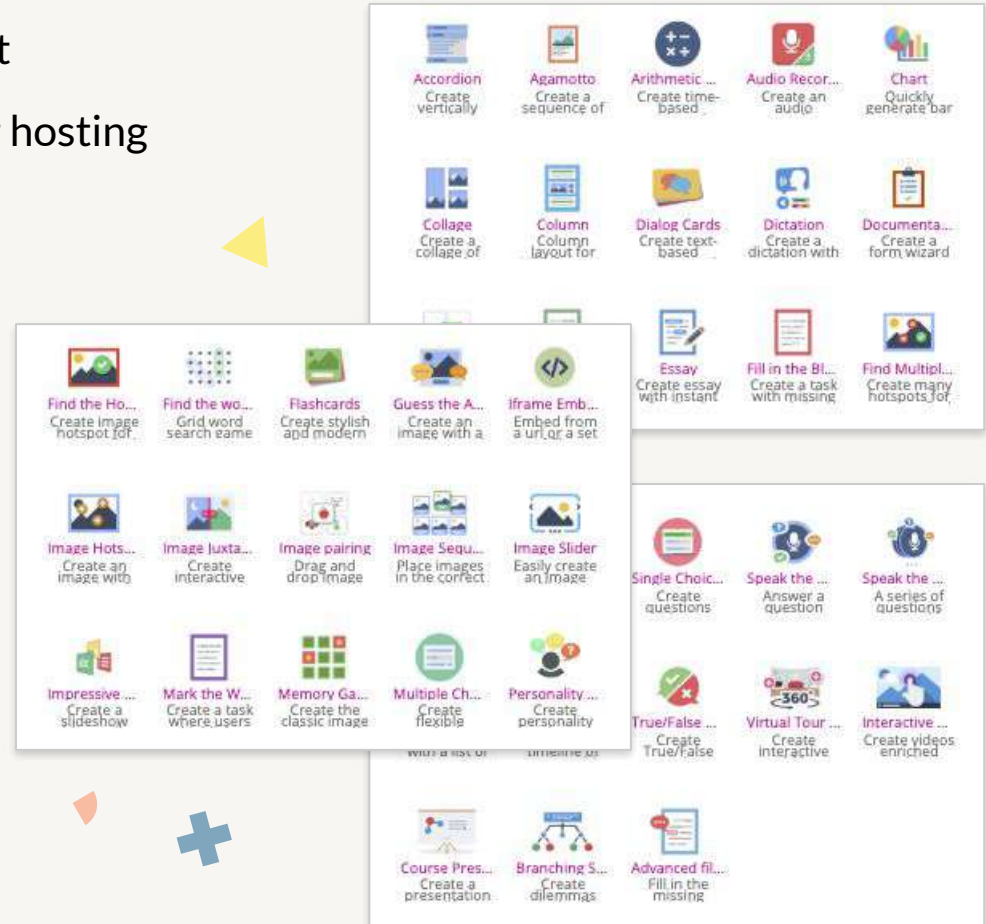
Remind



Microsoft
Teams



- Interactive content
- Self host or pay for hosting at H5p.com
- Worldwide, based in Norway
- @H5PTechnology
- Students access via embed or link
- Potential interactives:
 - Essay with instant feedback
 - Image sequencing
 - Quizzes (knowledge checks)
 - Forms with text export





Essay

Create essay with
instant feedback

What is Learner Agency and Why is it Important?

View Edit

Submitted by tahrja on Mon, 02/12/2018 - 22:09

Given the resources in this module and your current state of knowledge, how do you define learner agency and its importance?

Learner Agency is when the student is able to actively engage with their learning in a way that encourages authentic, relevant content mastery.

Remaining characters: 607

Your response was reviewed against a robust set of key words and phrases. Based on those you entered, it looks like you've got a solid foundational understanding anchored in a majority of key ideas!

3/4 [Copy](#)

0 Review 43 Edited

New to H5P? Read the [installation guide](#) to get H5P on your own site.

Essay

Tip: * (required)
used for marking, reports and copyright information

What is Learner Agency and Why is it Important?

+ Media

Task description *

Describe your task here. The task description will appear above the text input area.

Given the resources in this module and your current state of knowledge, how do you define learner agency and its importance?

Help text:

This text should help the user to get started.

This book is about ...

+ Sample solution

Introduction

You can optionally leave the students some explanations about your example. The explanation will only show up if you add an example, too.

Sample solution text

The student will see a "Show solution" button after submitting if you provide some text here.

Keywords *

- 1. active learning
- 2. fall
- 3. voice
- 4. choice
- 5. ownership
- 6. authentic
- 7. reflect
- 8. motivation

+ ADD KEYWORD

Keyword *

Keyword or phrase to look for. Use an asterisk "*" as a wildcard for one or more characters. Use a slash "/" at the beginning and the end to use a regular expression.

active learning

Variations

Add optional variations for this keyword. Example: "fall" or "add alternative term", "synonymy" etc. Points will be awarded if the user includes any of the specified alternatives.

Keyword variation

active

Keyword variation

engage

Keyword variation

engaged

Keyword variation

engagement

Keyword variation

engages

Keyword variation

actively

Keyword variation

learns

Keyword variation

learning

Keyword variation

educate

Keyword variation

learning environment

Keyword variation

environment

Add variation

+ Points, Options and Feedback

Overall Feedback

Define custom feedback for any score range

Click the "Add range" button to add as many ranges as you need. Example: 0-20% Bad Score, 21-81% Average Score, 81-100% Great Score!

Score Range * Feedback for defined score range

0 % ~ 20 % Your response was reviewed against a robust set of key words and phrases. Based on %

21 % ~ 50 % Your response was reviewed against a robust set of key words and phrases. Based on %

51 % ~ 100 % Your response was reviewed against a robust set of key words and phrases. Based on %

+ ADD RANGE

Distribute Evenly

+ Behavioural settings

+ Text overrides and translations

H5P Options

- ☒ Display buttons (download, embed and copyright)
- ☒ Allow download
- ☒ Embed button
- ☐ Copyright button

[Save](#) [Delete](#)

New to H5P? Read the [installation guide](#) to get H5P on your own site.



Image Sequencing

Place images in the correct order

Image Sequencing

[View](#) xAPI coverage

Submitted by [jithin](#) on Mon, 08/21/2017 - 15:58

A free HTML5 based image sequencing content type that allows authors to add a sequence of their own images (and optional image description) to the game in a particular order. The order of the images will be randomized and players will have to reorder them based on the task description.


Examples

Previous


1 of 3
Planets - Quiz
Created by [jithin](#)

Next


Order the planets from smallest to largest




Venus




Mars




Saturn




Uranus




Neptune



Jupiter



Earth



Mercury

Time spent
0:00

Total Moves
0

[✓ Check](#) [🔍 Show Solution](#)

[🔄 Reuse](#) [📄 Rights of use](#) [↔ Embed](#)

Feedback

10/9





Dictation

Create a dictation
with instant feedback



Be well prepared! You can listen to each sentence only once, and you will not be presented with the correct solution afterwards!



Check

Reuse

Rights of use

Embed



It's dictation time!

This is a very simple exercise. Just click on the audio play buttons below, listen to the samples and type what you heard.



The tape is alive.

The ☒ tapecake ☒ is ☒ alivea ☒ lie ☒



The quick brown fox jumped over the lazy fox.

The ☒ quick ☒ brown ☒ fox ☒ jumpedjumps ☒
over ☒ the ☒ lazy ☒ foxdog ☒

You have made 5 mistake(s). Try again!

9/14

Retry

Reuse

Embed

H&P



Documentation Tool

Create a form wizard
with text export



Document your project!

- Document your project
- Goals
- Plan
- Project work
- Evaluation
- Goals assessment
- Done

Document your project

[Read more](#)

This wizard allows you to document how you work on your project in a structured way.

In order to document your project properly, you should include the following steps:

1. Goals
2. Plan
3. Project work
4. Evaluation
5. Goals assessment

It's important you take notes during your actual project work. You'll make good use of them here.

Start by submitting the title of your project:

Start date:

Your name:

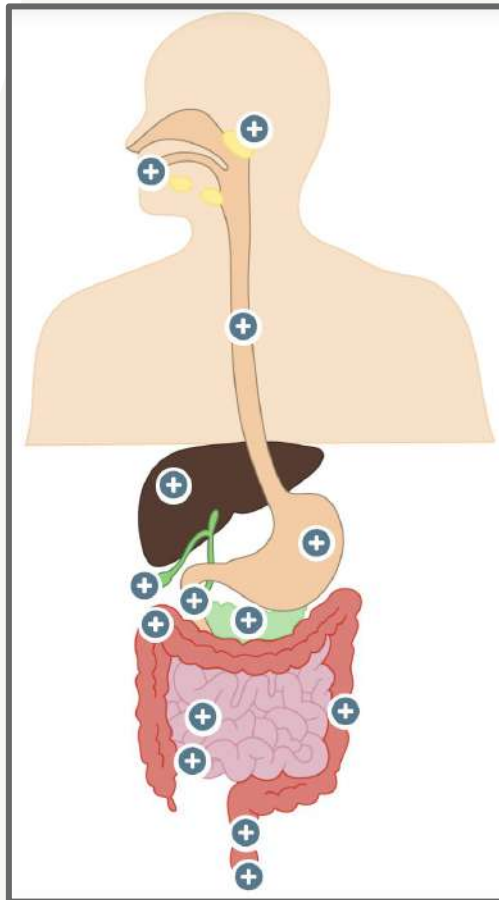
[Reuse](#) [Embed](#)

[<](#) [>](#)

H&P



Other
favorites...



Learner-Centered vs. Teacher-Centered Learning

Drag each term into the correct category, then click "Check" to see how you did.

Directed Learning Methods	Content is not predetermined.	Student constructs knowledge by exploring & analyzing.	Student is Knowledge Generator & Evaluator
Scaffolded Learning Methods	Learning goals defined by curriculum.	Learning goals are negotiated & endorsed by students.	Student processes specified content.
Teacher is Knowledge Transmitter	Teacher is Facilitator & Scaffolding Provider	Anytime, Anywhere Learners move to next grade each year	Teacher is Lecturer Student is Knowledge Receiver
Teacher is Mentor	Well-Defined Content		
Learner-Centered Learning		Teacher-Centered Learning	

Drag the words into the correct boxes

are non-renewable and produce greenhouse gases like carbon dioxide.

One of the disadvantages of power is the risk of radiation if there is an accident.

power has a high power output on big rivers, but it is expensive to build.

energy resources do not produce greenhouse gases like carbon dioxide, but they are unreliable.

power is a reliable source of energy, but it has a relatively low power output.

Fossil fuels Geothermal nuclear Hydroelectric Wave, solar and wind

Check

A Few Parting Resources

Tahnja Wilson, Educator, MBA/MIM

ctahnjawilson@gmail.com

@TahnjaWilson



Retrieval Practice Grids

Retrieval Practice Challenge Grid!



What's your score?



Who was Head of Cheka in 1917?

Explain the term bourgeoisie.

Who was Anatoly Lunacharsky?

List four different enemies of Cheka.

Describe Khrushchev's attitude towards religion.

Explain the term 'Proletkult'.

List three aims of the NEP.

What was the October 1917 Decree on Land?

Explain the term 'show trial'.

Who was Patriarch Tikhon?

What were the aims of agitprop?



Describe one strength and one weakness of War Communism.

Last lesson (1)

Last week (2)

Two weeks ago (3)

Further back! (4)

 **jennnnnnn** 
@Jennnnnnn_x


Stolen this fab idea to check retention of knowledge from [@87History](#) [#geographyteacher](#)

Title: How does the structure of a population vary? **05 January 2018**

Starter		
How many points can you score in 5 minutes?		
State two factors would change the birth rate of a country?	What is fertility rate? Why might it decrease as a country develops?	Why is the Scottish highlands a sparsely populated area?
What is urbanisation? Why did it impact the population density and distribution in the UK?	Why does the death rate decrease as a country develops? Use an example for a bonus point.	Define infant mortality rate? What is the difference between that and child mortality rate?
Describe the growth of world population in the last 150 years. Try and include figures where possible.	Describe the difference between sparsely and densely populated. Can you name 3 examples of each in the UK?	Explain why HICs have a lower birth rate than LICs. Try and include more than one reason.
Last lesson – 1 mark	Last week – 2 marks	2 weeks ago – 3 marks

Key Words
Youthful, ageing, structure, population pyramid.

Homework
Choose a task off the menu.

How does this link to Geography?








































7:46 AM · Jan 5, 2018

Choice Board Example

T.E.A.M. EduACTION

Digital Media Design Student Choice Board

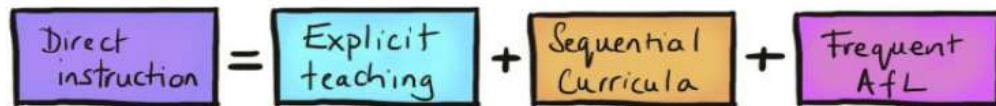
*Use the Made to Stick Principles to create more captivating media. Make sure your digital media are accessible (use closed captions, provide transcripts, add captions/alt text to images) and free of copyright infringement. Explore the T.E.A.M. EduACTION site for more resources.

Make a Movie or Music Video     	Design an Interactive Video   	Create a Screen Recording   
Record a Podcast   	Create Music  	Tell a Story   
Make a Mindmap   	Code a Song or Game  	Design an Infographic   
Create a Meme or Poster   	Design a Comic   	Create a Graphic or <u>Sketchnote</u>    
Put Together a Slideshow   	Curate a Digital Wall of Resources   	Build a Website or Blog    
Design a Timeline   	Build a Virtual Tour or World  	Create a Whiteboard Presentation   

What is... DIRECT INSTRUCTION?

@Impact Wales

Explicit instruction designed to produce mastery in pupils as quickly as possible.



Originally designed by Siegfried Engelmann in 1964, his method often used teacher scripts & grouped pupils by their ability to complete a task, moving them on as soon as they had mastered it.

Effect Sizes - Hattie

Direct Instruction = 0.59
Inquiry Learning = 0.31
Problem-based learning = 0.15

How do you do it? Kirschner's 5 Steps

- 1 Set the stage for learning. Provide pupils with the knowledge they need to enable their learning.
- 2 Clearly explain what is expected of pupils & what you want them to do.
- 3 Model the learning. Show them how it is done. Explain what you did, and why you did it.
- 4 Provide guided practice time.
- 5 Formatively assess throughout & regulate the learning.