

FORMATIVE ASSESSMENT FOR THE CELL CYCLE USING EDPUZZLE

ANA PEREIRA NEVES (/USERS/ANA-PN)

Tech Tool: EDpuzzle

What is this? EDpuzzle is an online technology tool that allows teachers to customize videos by cropping, adding voiceovers, inserting questions and notes as well as track student understanding.

How do I use this? <https://edpuzzle.com/> (<https://edpuzzle.com/>)

Why use this?

- EDpuzzle allows teachers to crop web or uploaded videos down to portions wanted
- EDpuzzle allows teachers to insert questions and notes throughout the video
- EDpuzzle enables teachers to add voiceovers
- EDpuzzle provides a medium for teachers to monitor student understanding and progress
- EDpuzzle enables teachers to create their own class and invite students to join this class
- EDpuzzle permits teachers to import class lists from Google Classroom
- EDpuzzle allows teachers to create assignments and send them to their students with specific due dates and provides a non-skipping option to ensure students watch the completed video
- EDpuzzle has an extensive video collection with already cropped and edited video-lessons which teachers can use as is or can edit further
- Cropped and edited EDpuzzle videos can be shared using a link or embed code

Course Code: SNC 2D

Topics

The Cell
Cycle

Timing

Preparation: 75 min

Lesson: 40 min

Specific Expectations:

B2.1 use appropriate terminology related to cells, tissues, organs, and systems of living things, including, but not limited to: *absorption, anaphase, capillaries, concentration, differentiation, diffusion, meristematic, mesophyll, phloem, prophase, red blood cells, regeneration, stomata, and xylem*

B3.1 describe the cell cycle in plants and animals, and explain the importance of mitosis for the growth of cells and repair of tissues

Introduction

In this activity students will be using EDpuzzle to demonstrate their understanding of the cell cycle. Students will watch a short video with embedded questions which they will have to answer and submit to the teacher. The answers to these questions will be used as formative assessment for the cell cycle topic.

Before asking students to watch the video and answer the questions, teachers must have taught and reviewed the cell cycle.

Materials

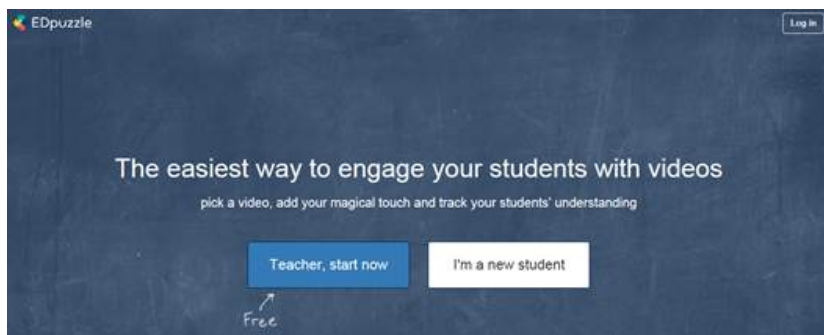
- One device (phone/tablet/computer) per student
- Projector (for students to watch EDpuzzle student tutorial)
- Internet access

Previous Knowledge

Students need to be familiar with the concepts of the cell cycle.






Teacher Set up

1. Go to the EDpuzzle website and create an account
2. Click on “Teacher, start now” on the middle of the page



3. Click “Start tour” at the top right of the screen
4. Follow the instructions on the screen to trim (edit) the sample video
5. Once finished, click “Continue” at the top right of the screen
6. Insert question into sample video in the text box provided
7. Once finished, click “Continue” at the top right of the screen
8. Read the screen on how student progress is tracked
9. Once finished, click “Create my first lesson” at the top right of the screen
10. Sign-in through Google, Edmodo or sign-up by writing your first name, last name, e-mail and password
11. Once logged in, select your lesson subject and your school name and click “Join”
12. On the left side of the screen, select from which channel you would like to use your video from and then use the search engine at the top of the screen to search for your video topic
13. Once you select your video, click on it and click on the “Use it” icon at the top of the screen



1. Play video then use the cropping icon  to crop your video
2. Once finished, click on  to add voiceover and  to add audio notes and  to add questions and notes
3. Next, click on “Finish” at the top right corner of the screen; you can click “Save” at the top right corner of the screen at any time throughout your video cropping and editing
4. Next, assign the video to your class or share it with a specific student and select your options (*prevent skipping* and *add due date*)
5. If you are not ready to share the video, click “Later” at the bottom of the window, if you are ready click “Send” at the bottom of the window
6. Students will have to sign-up with EDpuzzle as a student to complete the assignment; the teacher will provide students with an access code or link to join the class
Teachers can track the progress of each student by clicking  under “My Classes”

Lesson Plan

Description	Time
Get students ready for EDpuzzle	
<ul style="list-style-type: none"> • Teacher teaches the cell cycle • Teacher gives students access code or link to join class • Students watch the following EDpuzzle tutorial https://www.youtube.com/watch?v=XKN6K1T9AfI (https://www.youtube.com/watch?v=XKN6K1T9AfI) 	75 min

EDpuzzle	40 min
<ul style="list-style-type: none">• Students get out their device and go to https://edpuzzle.com/ (https://edpuzzle.com/)• Once logged in, students will watch the video and answer all questions	
Post EDpuzzle	75 min
<ul style="list-style-type: none">• Teacher will review the answers to all questions submitted by each student and will determine which students have misconceptions about the cell cycle• Teacher will conference with these students to re-teach the cell cycle concepts	(Depends on the number of students with misconceptions)

Safety

No safety issues.

Teaching Suggestions/Hints

- Teachers should select the “prevent skipping” option when sharing video with students to ensure students will watch the full video
- If you prefer, use already cropped and edited videos created by other EDpuzzle users by searching the EDpuzzle channel (*See Step 12 above*)

Next Steps/Extensions/Other Topics for this Tech Tool

Next Steps for this lesson can include:

- Review the cell cycle as a class
- Have students create their own video lesson using EDpuzzle on the cell cycle
- Have students visually communicate the concepts of the cell cycle, once all misconceptions have been eliminated, by asking them to create a video as a group and then present it to the class as an evaluative assignment

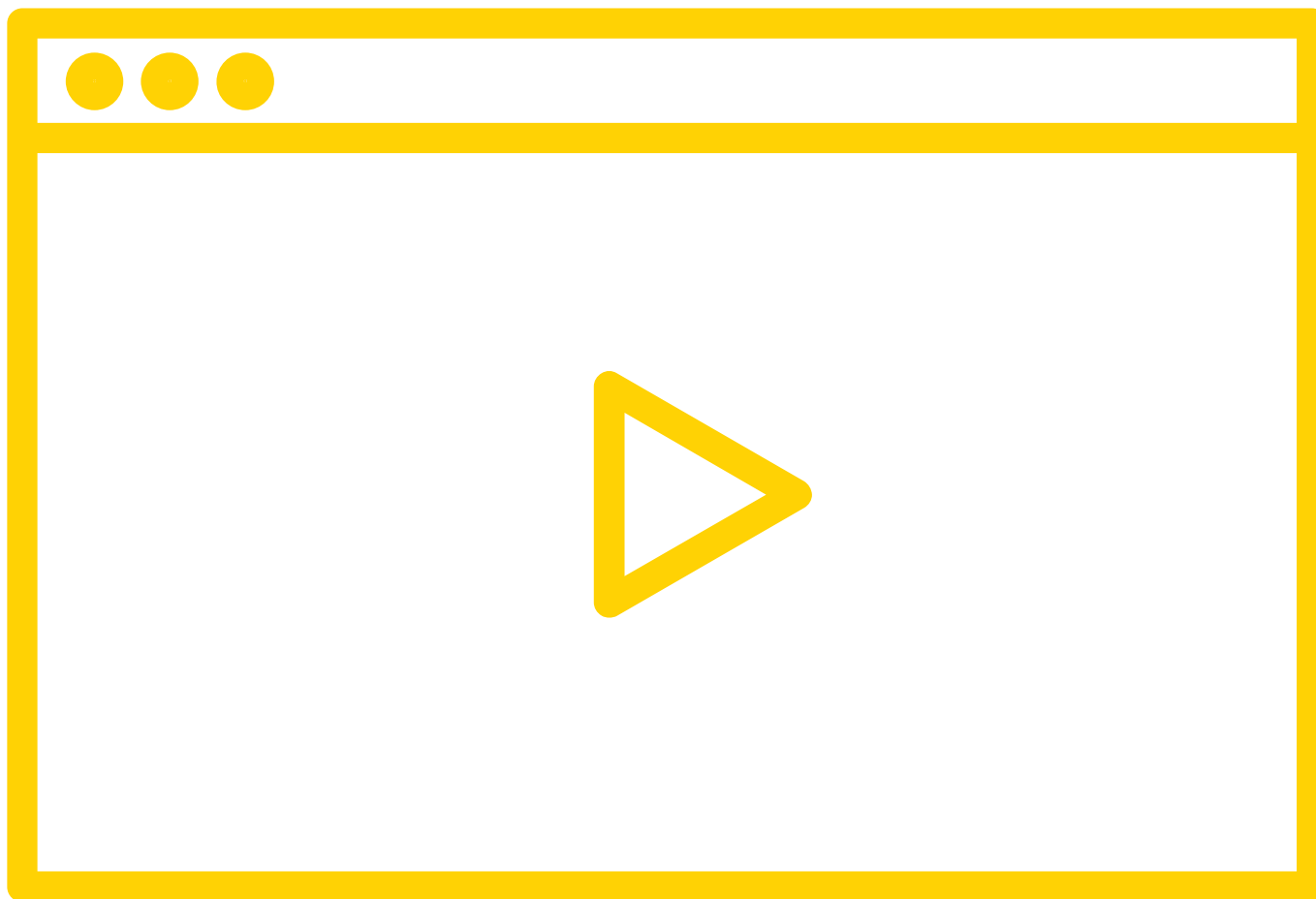
Other topics that can be taught using this tool:

- EDpuzzle can be used in any science unit as a formative assessment tool.



(mailto:
subject
out

f t G+ this
(http://
http://
catalog/
assessment
for-for-for-for-
the-the-the-the-
cellcellcellcell-
cyclecyclecycle-
usingusinging-
edpuzzleedpuzzle






WATCH THE VIDEO


04:24 min

(//www.youtube.com/embed/V_pPVKaZwpc?width=800&height=450&iframe=true)

RESOURCES

-  Demo EDpuzzle (<https://www.youtube.com/watch>)
-  Full EDpuzzle tutorial (<https://www.youtube.com/watch>)
-  EDpuzzle Student Tutorial (<https://www.youtube.com/watch>)

ELEMENT

 Technology Enabled Learning (</expert-elements/technology-enabled-learning>)





[\(/classroom-catalysts\)](/classroom-catalysts) **RETURN**
TO CATALYSTS (</classroom-catalysts>)

STAO/APSO WEBSITE (<http://stao.ca/cms/>)
SEARCH (</search>)
PRIVACY POLICY (</privacy-policy>)
TERMS OF USE (</terms-of-use>)
CONTACT (</contact>)

 **FACEBOOK** (<https://www.facebook.com/STAOAPSO?fref=ts>)

 **TWITTER** (<https://twitter.com/staoapso>)

 **GOOGLE+** (<https://plus.google.com/u/0/+ScienceTeachersAssociationofOntarioDresden/about>)

 **INSTAGRAM** (<https://instagram.com/staoapso/>)

© 2015 STAO . ALL RIGHTS RESERVED