

Transforming Your Teaching to an Online Classroom

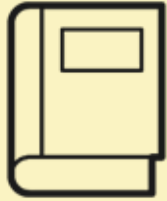
Keystone Academy



Introduction



International & Local Regulations



Education



Travel advisory



Health



News

Communication



- Faculty, Parents, Students
- Regular
- Assuring
- Honest & Transparent



Quality of learning

Consistency

Flexibility

Online Learning Plan

Simplicity

Differentiating by division

Technology & Equipment

Teachers, parents & students

Skills to Pedagogy

Training & Technical Support

Time for training

Social Emotional

Resources

Curricular

Flexibility

Formats

Assessment Considerations

Report cards

Communication

Engagement

Social Emotional

The Learning Spirit

Morale

Creativity

Storytelling



Rethinking the Classroom



Platforms & Applications

Familiarity

Consistency

Primary vs.
Secondary

Accessibility

Ease of Use



CHINA FRIENDLY APPS FOR ONLINE LEARNING

UPDATED: MARCH 12, 2020

COMMUNICATION & COLLABORATION




- Zoom (Green)
- Microsoft Teams (Green)
- Office 365 (Red)
- Flipgrid (Yellow)
- Padlet (Yellow)
- Sutori (Green)
- Backchannel Chat (Yellow)
- Aww (Green)
- A Web Whiteboard (Green)

CREATION



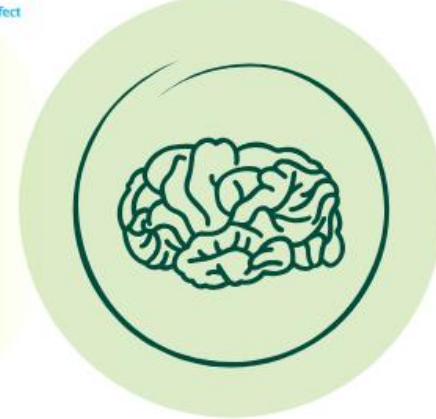
- PIKTOCHART (Yellow)
- Scratch (Yellow)
- PIXLR (Yellow)
- Explain Everything (Green)
- TINKERCAD (Green)
- PHOTO COLLAGE (Green)
- MindMap (Green)
- PIXTON (Green)
- Mind (Green)
- Word Clouds (Green)
- Fake Chat App (Green)
- Canva (Green)

ASSESSMENT & FEEDBACK



- Socrative (Green)
- Quizlet (Green)
- AnswerGarden (Green)
- Mentimeter (Green)
- vt (Green)
- voicethread (Green)
- Kuta Works (Green)
- nearpod (Yellow)
- Gimkit (Yellow)
- QUIZZZ (Yellow)
- Kahoot! (Yellow)
- EducationPerfect (Yellow)

CONSTRUCTING KNOWLEDGE



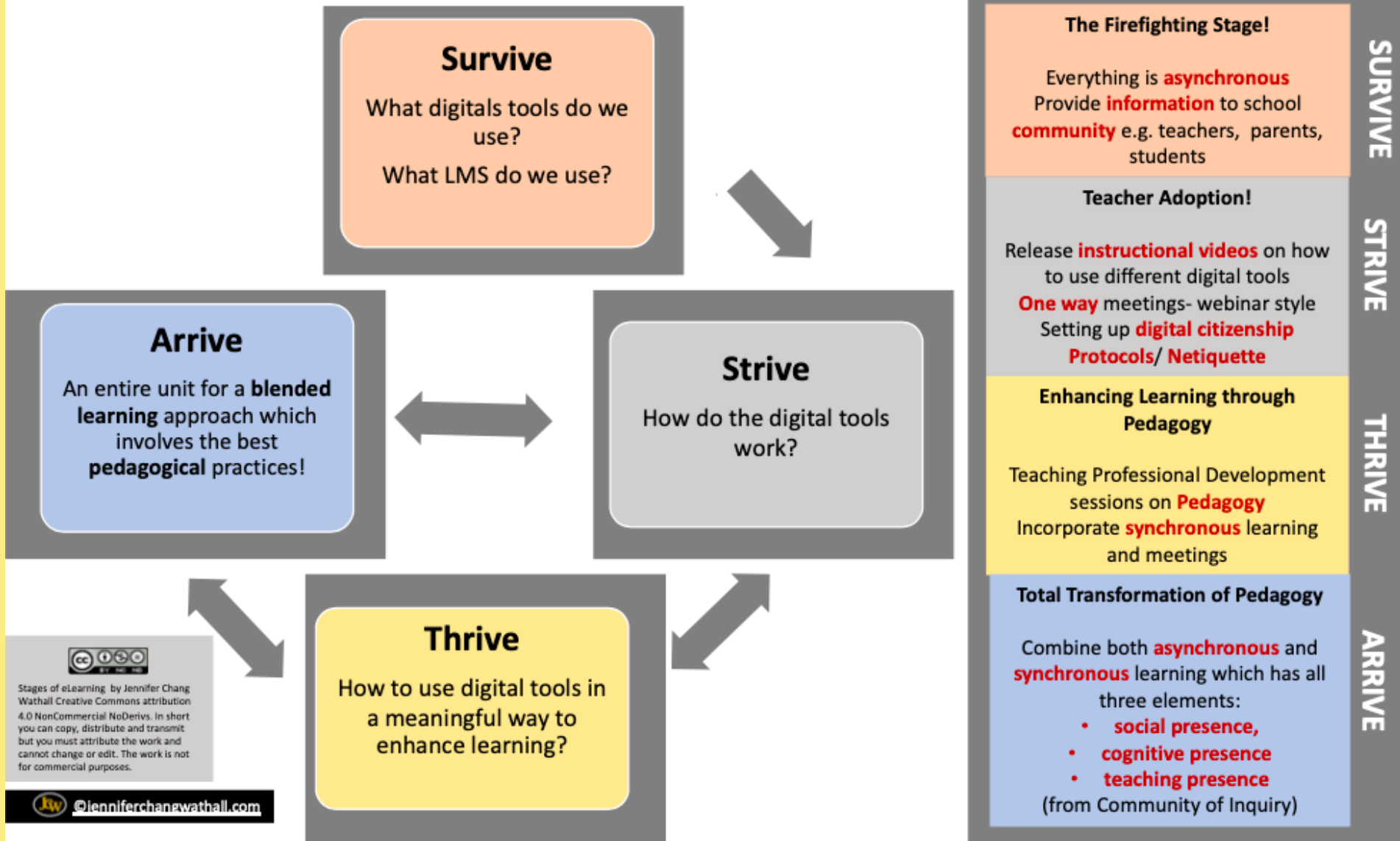
- Gizmos (Green)
- Brain POP (Green)
- newsela (Green)
- edpuzzle (Yellow)
- Unsplash (Yellow)
- Khan Academy (Green)
- pixabay (Green)

✓ GREEN APPS - WORKS WELL ACROSS MAJOR INTERNET PROVIDERS
⚠ YELLOW APPS - SOME ISSUES WITH ACCESS OR USABILITY
🚫 RED APPS - DO NOT WORK WELL IN CHINA AND HAVE NOT BEEN INCLUDED IN THIS GRAPHIC


 CREATED BY SANDRA CHOW @WATNUNU WITH SUPPORT BY JUN SHENG, XIAOYI LI, JIM JIN, @CHAMADA

tinyurl.com/chinafriendlyapps

Stages of eLearning



Stages of eLearning by Jennifer Chang Wathall Creative Commons attribution 4.0 NonCommercial NoDerivs. In short you can copy, distribute and transmit but you must attribute the work and cannot change or edit. The work is not for commercial purposes.

Synchronous & Asynchronous

Pros of synchronous learning

- More like a traditional classroom
- Faster paced
- More connections and interactions
- Immediate feedback
- Real-time work and discussions
- Easier to track participation

Pros of asynchronous learning

- Better suited to separate locations
- Slower paced
- More resilient to technical trouble
- Less scheduling issues
- Less points of failure
- Easier to archive work and discussions

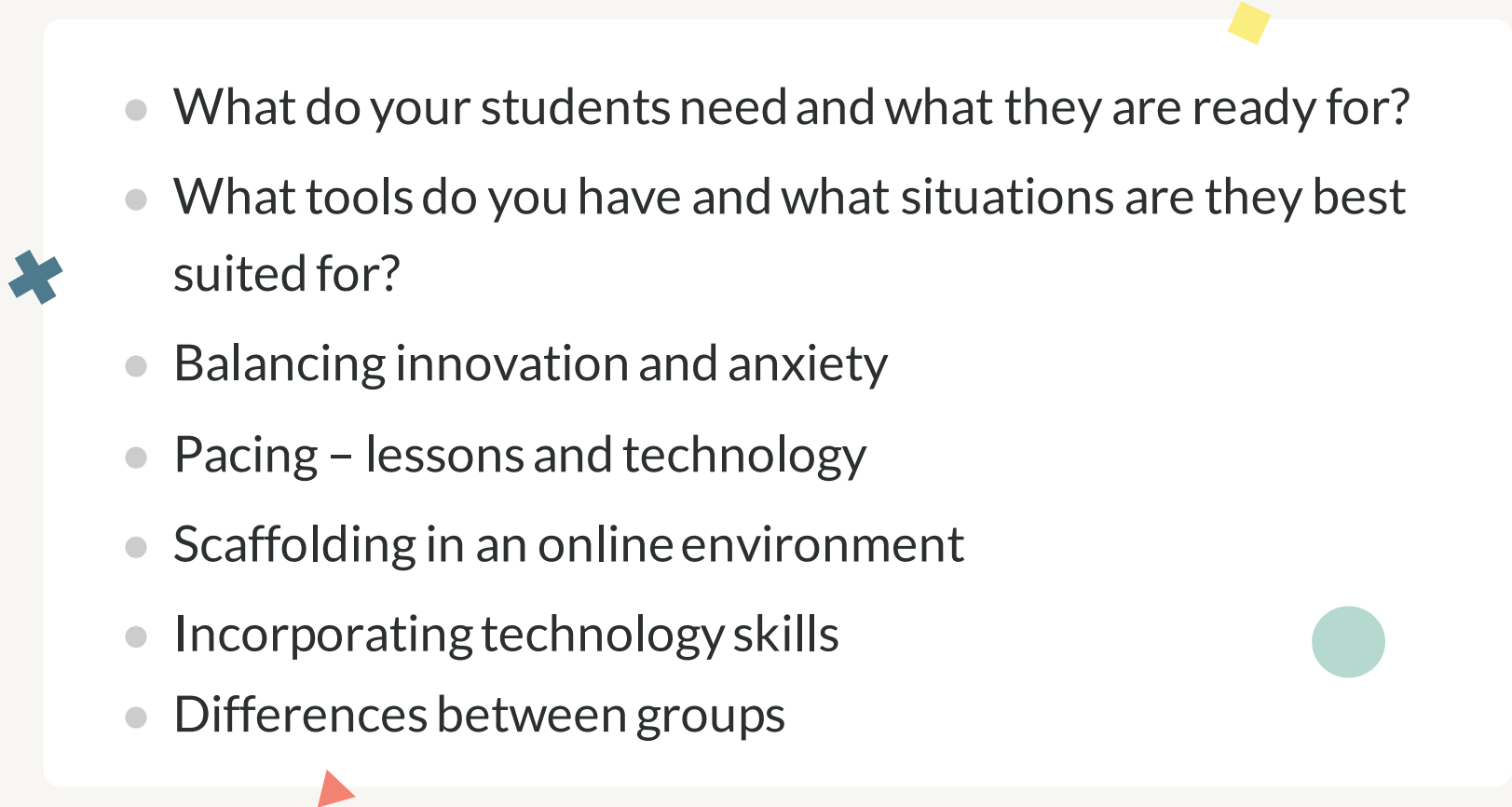
Cons of synchronous learning

- More susceptible to technical trouble
- Faster paced
- More points of failure
- Requires more effort
- Harder to schedule

Cons of asynchronous learning

- Feedback is delayed
- Slower paced
- Less connections, more isolated
- Lack of external motivation
- Students can get left behind

Lesson Considerations

- 
- What do your students need and what they are ready for?
 - What tools do you have and what situations are they best suited for?
 - Balancing innovation and anxiety
 - Pacing – lessons and technology
 - Scaffolding in an online environment
 - Incorporating technology skills
 - Differences between groups

Teach digital note-taking skills

Minimize ambiguity and anxiety

Be publicly positive

Stay flexible!

Utilize your resources

Communicate with your colleagues

Take risks

Give (limited) choice

Strategies



Stories from the Field



(Re)Teaching digital note-taking

The image shows a PDF document titled "FIVE NOTETAKING METHODS" with several annotations. A red triangle points to the top left corner of the PDF window. A blue plus sign is on the right side. A yellow sticky note with the text "Study this for the test!" is placed over the first method. A red star is at the bottom right. A yellow square is at the bottom right. A teal circle is at the bottom left. The document content includes:

FIVE NOTETAKING METHODS

Notetaking

Great note-taking takes practice. You have to find a method that works for you, and that may change depending on the class that you're in (for example, a science class versus a humanities class). Here are 5 methods that are proven to be successful. Read over each one and decide if there's one that might work for you.

These styles are described in the format you would use to take notes in class. You might find that **a comfortable method is a combination of 2 or more of the ones listed here**, and that's fine.

Figure out what works for you and stick with it!

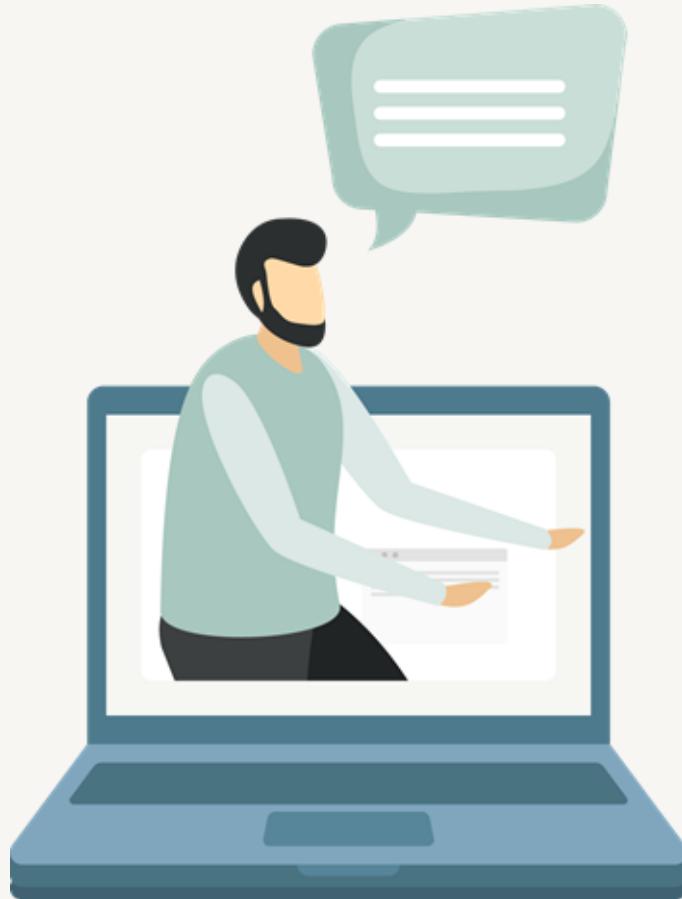
THE CORNELL METHOD

Today's Date

You physically draw a line vertically down your paper, leaving 2.5 inches on the left and 6 inches on the right. This allows you to take notes on the right-hand side of the page leaving space on the left to summarize the main point with a cue word or phase.

Layout of the page and where to write

Reduce ambiguity
and anxiety



Respectful and good listening looks like:

- Keeping your microphone off until a teacher says to turn it on
- Only typing if the teacher tells you to
- Using pictures ONLY when the teacher says it is ok
- Keeping your camera off until a teacher says to turn it on

Be publicly positive

5QR Morning Meeting Chat Join

[STUDENT] 3/6 9:20 AM 👍 1 ❤️ 1 🙄 2
Hello. I am so boring. I dreamed about going to school the last three days.

3/6 9:20 AM ❤️ 1
孩子们，老师见到你们非常激动，想念你们! ~

[STUDENT] 3/6 9:20 AM 👍 1
hope your healthy

3/6 9:21 AM ❤️
Hi everyone we miss you!!!!

[STUDENT] 3/6 9:21 AM 👍 2 ❤️ 1
I miss you all and I hope everyone is happy, healthy, and safe!!!

3/6 9:21 AM
Q and R you guys rock!

3/6 9:21 AM
I love to see that you guys are dreaming about school!!!!

[STUDENT] 3/6 9:23 AM 👍 4
HI I MISS YOU GUYS! I'm so cramped at home! I really want to go out! I hope that you are all well! I REALLY WANT TO PLAY! I believe that we will defeat the corona virus! Go Keystone! P.S. I really miss you guys!



**Be flexible, take risks,
give students a choice!**



Kognity

Home • IB DP Physics HL • Book • Wave characteristics

4.3
4.3.0
4.3.1
4.3.2
4.3.3
4.3.4

We also know that since energy is proportional to intensity ($E \propto I$) then amplitudes can be related to intensities and distances by:

$$\frac{I_Y}{I_X} = \frac{(A_Y)^2}{(A_X)^2} = \frac{r_X^2}{r_Y^2}$$

Or, focussing on amplitudes and distance from the point source:

$$\frac{A_Y}{A_X} = \frac{r_X}{r_Y}$$

Thus, for spherical waves from a point source the wave amplitude varies inversely with radial distance from the source, or $A \propto \frac{1}{r}$. This assumes no energy loss in the medium itself.

Important

We can calculate intensities and amplitudes, but it is not surprising that human senses create biological perceptions that do not follow these relations exactly, and that can be influenced by frequency. You may study this in another part of the course.

Example 1

Wave "X" has amplitude A and a second wave "Y" has amplitude $\frac{A}{4}$. What is the ratio of intensities of the waves, $\frac{I_X}{I_Y}$?

[Show solution](#)

Example 2

Home • IB DP Physics HL • Assignments

All Classes

Create assignment

Learn more about assignments

Current assignments (0) Past assignments (169) Draft assignments (0) Archived

Assignment name	Type	Subject Class	Sent	Deadline	
4.3 reading	<input type="checkbox"/>	2021 Physics HL - A	2020-03-09 09:52	2020-03-10 11:15	<input type="checkbox"/>
4.3 travelling waves quiz	<input checked="" type="checkbox"/>	2021 Physics HL - A	2020-03-03 10:11	2020-03-05 21:30	<input type="checkbox"/>
12.2 radioactive decay quiz	<input checked="" type="checkbox"/>	2020 Physics HL - A	2020-03-02 17:31	2020-03-04 19:08	<input type="checkbox"/>
12.2 radioactive decay quiz	<input checked="" type="checkbox"/>	2020 Physics HL - B	2020-03-03 08:11	2020-03-03 08:59	<input type="checkbox"/>
	<input type="checkbox"/>	2021 Physics HL - A	2020-02-27 07:58	2020-02-28 11:00	<input type="checkbox"/>
	<input type="checkbox"/>	2021 Physics HL - A	2020-02-25 11:23	2020-02-26 09:00	<input type="checkbox"/>
	<input type="checkbox"/>	2021 Physics HL - B	2020-02-23 18:35	2020-02-26 07:59	<input type="checkbox"/>
solution quiz	<input checked="" type="checkbox"/>	2020 Physics HL - A	2020-02-18 18:40	2020-02-20 07:59	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	2021 Physics HL - A	2020-02-19 09:58	2020-02-19 10:25	<input type="checkbox"/>

Kognity

https://keystoneacademy.kognity.com/schoolstaff/app/physics-hl-2016/60531/statistics/class-overview/

Home • IB DP Physics HL • Class Overview

Performance Overview **Class Overview** Subject Overview

Class Overview

IBDP Physics HL 2021 Physics HL - A (17 students)

Student name	Last active	Last 5 sections	Last 5 assignments
Harbor Bai	1 day ago	✓ 4.3.4 ✓ 4.3.3 ✓ 4.3.2 ✓ 4.3.1 ✓ 4.3.0	✓ ✓ ✓ ✓ ✓
Joshua Cao	8 hours ago	✓ 4.3.3 ✓ 4.3.4 ✓ 4.3.2 ✓ 4.3.1 ✓ 4.3.0	✓ ✓ ✓ ✓ ✓
Peter Chang	1 day ago	✓ 4.3.3 ✓ 4.3.2 ✓ 4.3.1 ✓ 4.3.4 ✓ 4.3.0	✓ ✓ ✓ ✓ ✓
David Chen	22 hours ago	✓ 4.3.4 ✓ 4.3.3 ✓ 4.3.2 ✓ 4.3.1 ✓ 4.3.0	✓ ✓ ✓ ✓ ✓
Henry Huang	1 day ago	✓ 4.3.4 ✗ 4.3.3 ✗ 4.3.2 ✓ 4.3.1 ✓ 4.3.0	✗ ✓ ✗ ✓ ✗
Kate Lei	23 hours ago	✓ 4.3.4 ✓ 4.3.3 ✓ 4.3.2 ✓ 4.3.1 ✓ 4.3.0	✓ ✓ ✓ ✓ ✓

Home • IB DP Physics HL • Assignments • Assignment details

4.2 travelling waves quiz

Questions

Assignment details

Sent 2020-03-03 10:11 Deadline 2020-03-05 21:30 (5 days ago) (Late submission is allowed)

+ More details

Download PDF report Download results as CSV Copy assignment

16 Questions

#	Question	Type
1	Electromagnetic radiation is emitted with a frequency of 1.5×10^{12} Hz. What type of radiation is it?	☰
2	Below is a graph of displacement from mean position against position for a wave. If the speed of the wave is 2.0 m/s, what is the frequency of the wave?	✍
3	Sophie is trying to measure the speed of sound. She stands 24.0 m away from a wall and claps repeatedly. She hears an echo 0.14 s after she claps. What is the speed of sound?	✍
4	What is the frequency of microwaves of wavelength 3 cm? Give your answer to the nearest GHz and write down the unit.	✍
5	A boat is in a deep-water region where the waves are sinusoidal in shape. The crests are 20 m apart and the boat bobs up and down 1.5 m. What is the amplitude of the waves?	☰
6	Which of the following could be the value of a wavelength that is found in the visible region of the electromagnetic spectrum?	☰
7	What is a possible value for the wavelength of infrared light?	☰

Sent to	Correct answers
Harbor Bai	13/16
Joshua Cao	13/16
Peter Chang	16/16
David Chen Late	14/16
Henry Huang	8/16
Kate Lei	14/16
Jack Li	Started 2020-03-09 08:11

Technical
limitations

Parent
expectations

Legal restrictions

**Challenges & Barriers –
Classroom**

Stress and
anxiety

Communication

Absent students

The unknown

Staff and students
spread globally

Changing
variables

Challenges & Barriers – Whole School

Technical support

Balancing
expectations faculty,
parents, students

Social Emotional



Q&A



Thank You!

Lili Jia, Sandra Chow, Kirk McCullough

