

Grade 10-12

Distance Learning Module 8: Week of: May 26th – May 29th

Physics Level 2 - Modified from Unit #7 - Waves & Sound

Targeted Goals from Stage 1: Desired Results

Content Knowledge:

- every object has its own resonant frequency based on its physical parameters
- instruments have various harmonic frequencies, multiples of the fundamental frequency, based on their physical characteristic
- That the properties of an electromagnetic wave are related to each other by the wave equation $v = Lf$ (v =velocity, L =wavelength and f =frequency).

Vocabulary:

- Waves
- Crests
- Troughs
- Frequency
- Period
- Energy
- Vibration
- Reflect
- Constructive Interference
- Destructive Interference
- Medium
- Amplitude
- Wavelength

Skills:

- calculating the speed of sound knowing its frequency and its wavelength.
- designing and constructing a successful wireless messaging device.
- applying principles of physics to develop a design or model.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday	Memorial Day	No School
Tuesday: Students are to watch video(s) reviewing the material and take notes	<ul style="list-style-type: none">• Weekly schedule that is posted on the Google Classroom• Notes that are posted on the Google Classroom• Posted videos - On Google Classroom• Light - Crash Course Video option #1• Light - Crash Course Video Option #2• Kurzgesagt video on light• UTexas• Physics Classroom Light• Textbook, posted on the Google Classroom	Students are to watch video and leave comments/attend live class section where they comment what they've learned or else questions that they have
Wednesday: Students are to attend live class session as needed Students are to complete brief UTexas on material from day before	Same as above	Students are to attend live sessions as needed Students are to complete UTexas assignment
Thursday: Students are to watch video(s) reviewing the material and take notes	Same as above	Students are to watch video and leave comments/attend live class section where they comment what they've learned or else questions that they have

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday: Students are to work on UTexas that is due Friday review videos as needed	Same as above	Students are to attend live sessions as needed Students are to complete UTexas assignment

Week criteria for success (attach student checklists or rubrics): *Greater than 75 % earned on University of Texas on-line Homework and Assessment (accounts required), checking in with teacher regarding Zoom/e-mail as needed, completing the comments/questions as needed on Google Classroom/E-mail/in person sessions*

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, PhET, Physics Classroom Tutorials, Flipping Physics videos, teacher made videos, Crash course physics videos, textbook