Read Me First

Thank you for purchasing our Teacher Presentation Pack. Our hope is that it provides you with a wealth of ready-to-use content and that it also enables you to easily customize and re-purpose the content to serve your students!

Licensing Agreement

You are free to use the content with your students and other students in the school. You can share files with your students and other students in the school provided that the medium used to share files is password-protected and viewable only by students at your school (and their parents). As this is a for-sale product, you cannot make the files available through publicly accessible platforms that allow for use, downloading, and acquisition by others. Please password protect the contents of this package.

You are also free to edit the content of this downloaded package and to re-purpose images, animations, movies, MS Word documents to create derivative works. Those derivative works can be used and shared with your students and other students at your school provided that the medium used to share is password-protected and viewable only by students at your school (and their parents).

You are prohibited from selling the contents of this download package or any derivatives made from the contents of the package. And you are prohibited from including or using the contents or any derivatives in commercial products that are owned or managed by others.

The terms of this license apply to the students and teachers at your school with whom you share the files and derivative works.

Contents and Advice

Now that the legal stuff is done, let's discuss the contents and our advice for its usage. The discussion will be brief. Further information is included online at our website.

Contents

The downloadable package includes MS PowerPoint slide decks, image files organized in the Images folders, animation and movie files also stored in the Images folder, MS Word documents (for Lesson Notes and in some cases, for Images), and PDF documents. Most (maybe even all) image files are .png file format. The animation files are either .gif or .mp4 file format; there are a very small number of animations saved as .png file format. All animations can be easily imported into MS PowerPoint and Word. Depending on the computer system you are using and the available software programs, they might not be viewable by double-clicking on them from a desktop folder. All slide decks and Lesson Notes with .docx file format should open if you have the PowerPoint and Word programs on your computer. They can also be opened in Google Slides and Google docs.

Create a Backup
Our first recommendation is that you store a backup of the package and have a working copy that you use to edit and create derivative works from. In the event that you need the original files, they will be safely stored untouched in your backup.

Working With Images
We have made screenshots of most images that are used in the slide decks and have stored these images in the Images folder as .png files. Our hope was that you might find them to be useful assets for handouts and other creations. We also hope that you will find it helpful to edit images and make new images from the content in our files. Many of the images were created in PowerPoint and can be edited in PowerPoint. Wise advice would include making a copy of the slide and pasting it at the end of the slide deck and doing your editing on the copy. In the event that you change your mind or otherwise ruin the slide, you still have the original working slide.

We have also included many images in an MS Word file titled *Images* found in each of the folders. These are not *clean-looking* documents but have more of a *workshop feel* about them. You are welcome to open these documents and mess around in our workshop all you wish. Graphics created in the slide decks can be copied and pasted into these MS Word documents quite easily. Our hope is that teachers would make edits and new creations in the "workshop". We intended to make it easy for teachers to use the graphics (either the screened .png files or edited versions of the graphics in the slide decks) on handouts, quizzes, tests, etc. Let your creative juices flow!

Use of Slide Decks for Presentations
The slide decks are Microsoft PowerPoint files. These files can be used with anyone having a current version of the Microsoft PowerPoint application on their computer. They are designed to be used by teachers to present topics to students. There is also sufficient detail in the slides that a person who attended the presentation would be able to review the slides and pick up a wealth of content. The slides have strong visual impact and are complemented by a more-brief-than-a-textbook amount of words and explanations. This makes for easy *reading* that is not overwhelming while still cultivating some learning and understanding (or at least information acquisition).

Using a slide deck created by another person can be awkward at times. It isn't always clear exactly what that other person had in mind when they created a slide. You will likely feel that way on many slides. But there's much hope! These slide decks were originally created for the Physics Video Tutorial section on The Physics Classroom website. There is very little difference between the slide decks in the Teacher Presentation Pack and the slide decks used in the presentations included on the website. Thus, a teacher could easily open the corresponding video tutorial and fast forward through the video to a particular slide number to see exactly what the slide's creator had in mind. This practice will serve any teacher well when they lack an

understanding of a particular slide of the slide deck. But we feel the practice will be particularly beneficial to those teachers who are cross-over teachers and early-career teachers. The practice of viewing the actual presentation on the website will likely foster confidence in their own use of the slide deck and of the content itself.

Google Slides and our Slide Decks
We uploaded as many as 50 slide decks to Google Drive and opened and played them. We were amazed at how well they played. The amazement may have been unwarranted as all the slide decks were originally created in Google Slides and then saved as PowerPoint files. We did our final editing and improvements within PowerPoint. Naturally, the PowerPoint files did convert seamlessly back to Google Slides.

All that being said, a couple of issues should be expected that are related to restrictions associated with Google Slides. There's no getting around these restrictions. We can only alter our product in order to satisfy these restrictions. The first issue pertains to the use of .mp4 files. The second issue pertains to the use of GIF animations with more than 1000 frames.

We included several .mp4 files in the PowerPoint slide decks. These .mp4 files will not play in Google Slides unless they are first uploaded to Google Drive and then embedded into the slide deck from the drive. This is a Google restriction and there is nothing that we can do to skirt around it. So to use a PowerPoint slide deck containing an .mp4 file, you will have to upload the .mp4 file to Google Drive and then embed it into the slide deck. We have provided directions below. However, there is an alternative. In nearly every case (there's about 3 exceptions), we created a second slide deck that has the prefix GoogS in its name. These have had the .mp4 file removed and replaced by a .GIF file. In many instances, this came with the price tag of lower resolution. But it saves teachers from having to upload and embed the .mp4 files. It's a time-save with a small price tag. In such instances, teachers should upload the GoogS version of the PowerPoint to their Google Drive.

For the less-than-a-handful of slide decks that we chose not to replace the .mp4 file with a .gif file (usually because there was necessary audio that would also have been lost), we indicated such on the **Contents** page by highlighting the **.mp4** format in bold, red text. In such cases, you will either have to do without showing the movie file altogether or learn to embed the .mp4 files (it's not hard) or open the .mp4 file from the desktop to play the file in your video player.

The second issue pertains to the size of a GIF animation. Google currently limits the size to 1000 frames. Several of our animations are quite involved and can include more than 1000 animation frames. And several of our movie files could not be reduced to less than 1000 animation frames. For many of our larger animations, this required saving the animation at a lower frame rate. The result is that the resulting animation is of poorer

quality. And in some instances, we found the better choice to be to pull out several key frames from the animation and put them together as a PowerPoint animation. Altogether we did our best to create a GoogS version of the original PowerPoint slide decks that could be uploaded with ease to Google Slides and be fully functional. And we have also included all original files in the download. They can all be opened from the desktop any played either in a browser (perfect for .gif files) or in you're the Movie Player on your computer (perfect for .mp4 files).

Both of the issues will only be experienced by those who wish to play the original PowerPoint files in Google Slides. Animation and movie files of both file formats work great in Microsoft PowerPoint. And the directions below are the obvious work-around for those who wish to play the slide decks in Google Slides without any sacrifice in the quality of the animations and movies.

Embedding .mp4 Files in Google Slides
Embedding an .mp4 in a Google Slides file is not difficult to do. There's no shortage of directions and video walk-throughs on the internet for doing so. Here is our very brief set of directions that will help most teachers. You can find better guides on the internet.
1. Upload the .mp4 files to your drive. It would be wise to think through how you wish to organize this.
2. Go to the slide that contained the embedded .mp4 in the original PowerPoint slide deck. Click on the .mp4 file and delete it.
3. From the **Insert** menu, select **Video**.
4. From the pop-up, select the **Google Drive** tab. Navigate to the desired .mp4 file, select it, and tap on the **Insert** button.
5. Size, position, and configure the video file as you wish it to be.

Other Copyright Issues
We own the copyright to most graphics used in the slide decks. Whenever we chose to find images elsewhere, we tried to find files that we were able to include in this product. In many cases, the user license required that we include a credit and/or indicate the source of the graphic. You will find these URLs in the slide deck. However, there were a handful of times where we used an image that we did not have permission to share. We were able to use such files but not share them with others. In such cases, we indicated the URL to where the file was found. You can grab the file and insert it in the slide deck. In all cases, you are bound by the same license that we are. You can use the file but you must give credit by indicating the URL. Please honor such licenses by not deleting the fields containing the credits and URLs. Thanks.

Errata

A project that is this large is bound to have mistakes or omissions. We will maintain a page that lists those mistakes at the following URL:

https://www.physicsclassroom.com/Teacher-Presentation-Pack/errata.html

If you believe you have identified an error, then you can check the errata page. If it has not yet been reported, feel free to report it to us.

Updates

At least once a year we will evaluate the need for updates to this downloaded package. Updates would be made if we add new topics, make major changes to the presentation slide decks, encounter pervasive technical issues, or simply want to improve the contents with new materials. Notices of updates will be sent via email to the address that you purchased with. The notice will include a link to the updated package with the ability to freely download the update. You will be given about two weeks to act upon the update invitation.

Our Final Words

We hope that you find great satisfaction in our Teacher Presentation Pack. It is our third download package that we have prepared for teachers. We are particularly excited as it is a great complement to our Solutions Guide for the Curriculum Corner and our Question Bank download.

As with most of what we do at The Physics Classroom, we created this product with two goals – to make a ready-to-use out-of-the-box product and a product that offered teachers the ability to customize and personalize. We hope that both goals are realized in your use of the Teacher Presentation Pack.

We are a small company with big goals. We are a company of teachers serving students, teachers, and classrooms. We appreciate your business. Every dollar received is invested towards the goal of making the website better. And just as we appreciate your business, we also appreciate your feedback. You will find our email address on the website on the About page. We're always glad to hear from you.

The Physics Classroom