Welcome to IB Physics!

We are going to spend a lot of time together next year, so I like to learn a bit about your before the class actually begins. Your **FIRST ASSIGNMENT** is to successfully send me an email: **Due date: Friday June 14th, 2018.** You should follow these rules when writing your email:

- Use clearly written, full sentences. Do not abbreviate words! Use spell check. This is a professional communication like you would have with a college professor, so let's practice for the future!
- Address the email to me at: **lanterj@scsk12.org**
- Make the subject "IB Physics: Introduction to <Insert your name >" (OK, don't use the brackets or write "insert your name", just put your name!)
- Begin the email with a formal salutation such as: Dear Mr. Lanter.
- Now introduce yourself (your name) and tell me a little bit about yourself:
    - What do you like to do (hobbies, sports, music, interests)?
    - Do you have a job?
    - Tell me about your family (Mom? Dad? Guardian? Siblings? Pets?)
    - What do your parents do for a living?
    - What do you like about science?
    - What was the last thing you binge watched on Netflix?
    - Why did you choose to take Physics?
    - What about IB Physics makes you most anxious?
- End the email with a formal closing such as: Sincerely, Cordially, or Warm Regards.
- Now add your name as if you signed a letter.

The **SECOND ASSIGNMENT** for IB Physics is a slideshow presentation project called "Uncertain about Physics?". This project must be submitted by **Monday, August 12, 2018**. Instructions are attached.

The **THIRD ASSIGNEMENT** is to bring the following items printed and signed on the first day of school. They can be found on my website. https://lanterj.weebly.com/

- Syllabus form (I just need the last sheet)
- Honor Code Policy
- Fill out the google forms contact form

I am looking forward to our two years together.

Sincerely,

Jon Lanter
IB Physics

Uncertain about Physics?

You will find 20 separate measuring instruments. For example, a meter stick measures length, whereas a thermometer measures temperature. For each of the 20 measuring instruments, you will take a “selfie” with the instrument. With these 20 selfies, you will construct a slideshow presentation with the following criteria:

1. Title slide including name
2. 20 separate slides with a picture of a different measuring device for each slide
    a. Name the device on the slide
    b. Indicate the quantity measured by the device
    c. Include the unit the device measures in
    d. Provide the uncertainty for the device
    e. Give one example of how you would use this device within the realm of science.
3. You may not use the same type of measuring device more than twice. For example, you cannot use several different rulers.

Finding Uncertainty

Uncertainty provides a range to which improve how certain you may be of the accuracy of your data. For devices that do not provide the uncertainty, you will take the smallest marking on the device and divide it in half. For instance, a meter stick will often include millimeters on it. When measuring with a meter stick, the smallest marking is a millimeter, therefore you may estimate within a half of a millimeter. There for the uncertainty of a meter stick is ± 0.0005 m or ±0.5 mm.

Presentations should be emailed to lanterj@scsk12.org in PDF format before 11:59 PM August 12th, 2018.