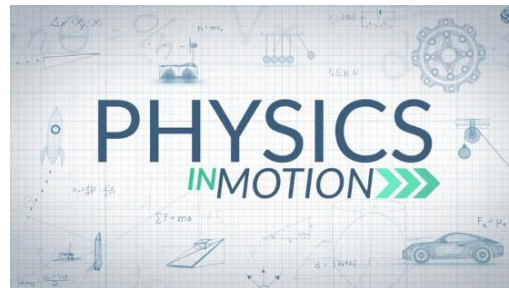


# SCIENCE 20F

## PHYSICS



### WORK PACKAGE 10

**TUESDAY MAY 19<sup>TH</sup>**

## Unit 4 - Physics

Last work package you finished up the weather Unit and got the first set of notes for the physics unit – “Motion”. Last week there was no work assigned yet as part of the physics Unit, there was just an expectation that you would review the notes from Lesson 1 “**Introduction to Motion**” and start thinking about the science of movement and motion. The “Lesson 1 notes” from last week were the only notes that would be similar to my “in class” notes I would have done in class had we been in school together. Today we continue with the condensed version.

Going forward we will complete this whole unit of Physics (the science of Motion) over the next 4 weeks and all with notes/work from a separate learning document. You will be familiar with this other style as we last saw material lessons from this other learning document in the Biology Unit and Weather Unit. Therefore, my expectations going forward are that you read through the lessons, complete the work within the lessons, then complete the separate assignments that I have provided to be completed after each section of lessons. The “work” within the lessons will not be for marks and does not need to be handed in. Only the assignments for marks, (only 1 assignment per week) which have point totals beside the questions and at the top of the page, will need to be handed in as you finish them and will be for marks. The lessons are in chunks of

2 or 3 lessons at a time. (Lessons will include some learning and some work within). These lessons which have a “notes” component and “work” component, **do not need to be handed in**. There are no marks for handing them in. I will only be asking that the **assignments for marks be handed in**. The assignments for marks will have questions that mirror almost exactly the work that was in the lessons. This is the most effective way to complete this learning.

If you have any questions or want help with the materials do not hesitate to contact me.

**Note:** In this work package I am including a document called: **Physics References – Terms and Equations**. This is a document I have created as a master list of: **Terms, definitions, explanations, examples, equations, and hints to solve problems**.

This “Physics, Terms and Equations” document will be valuable to you and help you to complete assignments more quickly and also to help you to understand the material more quickly. **Keep it with your lessons**.

### **This week’s Assignments**

<b><u>Lesson #</u></b>	<b><u>Possible dates for completion</u></b>
<b><u>Physics Lessons 1,2,3 Package</u></b>	22 May
<b><u>Physics Assignment 1</u></b>	25 May

## **This week's instructions**

Read through the lessons and complete the work that follows each lesson in the notes. Further explanations below:

**Physics Lessons 1,2,3 Package** includes 3 individual lessons:

- Lesson 1: **Position and Displacement**  
**Notes:** Read the notes and familiarize yourself with the physics terms; distance, displacement, position, origin, delta!  
**Work:** (Learning activity 3.1 Distance and Displacement) Use a number line to calculate displacement of the objects that moved and answer the following questions. Look back at your notes if needed.
- Lesson 2: **Measuring Time, Scalars, and Vectors**  
**Notes:** Read the notes and familiarize yourself with the physics terms; instant, interval, scalar and vector.  
**Work:** (Learning activity 3.2 Time Management) Answer the following questions, looking back at your notes if needed. (Learning activity 3.3 Scalar or Vector?) Answer the question and fill in the table the best you can.
- Lesson 3: **Displacement, Time and Velocity**  
**Notes:** Read the notes and familiarize yourself with the physics terms; velocity, speed, uniform motion, and position-time graph.  
**Work:** (Learning activity 3.4 Velocity of an object in Motion) Answer the following questions to the best of your abilities. Look back at your notes if needed.

Remember to consult with your References Document I gave you: "**Physics References – Terms and Equations**". This document will help you complete the assignments. It is included in this work package only!

**Physics Assignment 1:** This assignment is for marks and is very similar to the “work” you completed in the lessons. The questions are primarily on displacement and distance. Use the notes and your previous work to complete this assignment. Once it is completed, please remember to send it back to school. Please put your name at the top! It is out of 20 points!

**As you continue to work through these work packages, keep in mind that only assignments need to be turned in, not full lessons of notes. You can keep your notes and Work Package instructions at home!**

**I do not need to see the Physics work you completed in the “lessons – 1,2,3”. I only want you to turn in the assignments for marks such as Assignment 1! (20 marks). Thank You.**

Physics Assignment 1: needs to be completed and handed back in, to me when you can.

**Please remember to put your name on your assignments, first and last name!**

If you have any questions or concerns, please don't hesitate to contact me:

At school – Phone: (204) 367-2296

At Home – Phone: (431) 808-0816

Email: **M. Puranen** at [kpuranen@sunrisesd.ca](mailto:kpuranen@sunrisesd.ca)