Lesson Plan for Week 6 : Oct 17-21 Grade: 11A Course / Code: SPH3U Teacher: Ali Jama

	Monday	Tuesday	Wednesday	Thursday
Unit/ Lesson Big Ideas	**Unit 2: Forces** Forces can change the motion of an object. Applications of Newton's laws of motion have led to technological developments that affect society and the environment	**Unit 2: Forces** Forces can change the motion of an object. Applications of Newton's laws of motion have led to technological developments that affect society and the environment	**Unit 2: Forces** Forces can change the motion of an object. Applications of Newton's laws of motion have led to technological developments that affect society and the environment	**Unit 2: Forces** Forces can change the motion of an object. Applications of Newton's laws of motion have led to technological developments that affect society and the environment
Overall Expectations	**C1**. analyze and propose improvements to technologies that apply concepts related to dynamics and Newton's laws, and assess the technologies' social and environmental impact; **C2**. investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems; **C3**. demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension	**C1**. analyze and propose improvements to technologies that apply concepts related to dynamics and Newton's laws, and assess the technologies' social and environmental impact; **C2**. investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems; **C3**. demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension	**C1**. analyze and propose improvements to technologies that apply concepts related to dynamics and Newton's laws, and assess the technologies' social and environmental impact; **C2**. investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems; **C3**. demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension	**C1**. analyze and propose improvements to technologies that apply concepts related to dynamics and Newton's laws, and assess the technologies' social and environmental impact; **C2**. investigate, in qualitative and quantitative terms, net force, acceleration, and mass, and solve related problems; **C3**. demonstrate an understanding of the relationship between changes in velocity and unbalanced forces in one dimension
Specific Expectations	C2.1 use appropriate terminology related to forces, including, but not limited to: mass, time, speed, velocity, acceleration, friction, gravity, normal force, and free-body diagrams [C]	C3.3 state Newton's laws, and apply them, in qualitative terms, to explain the effect of forces acting on object	C2.5 plan and conduct an inquiry to analyse the effect of forces acting on objects in one dimension, using vector diagrams, free-body diagrams, and Newton's laws [IP, PR, AI, C]	C2.1 use appropriate terminology related to forces, including, but not limited to: mass, time, speed, velocity, acceleration, friction, gravity, normal force, and free-body diagrams [C]
Learning Goals	Types of forces Free-body diagrams .	Newton's First law of motion	Newton's Second law of motion	Newton's third law tension and Newton's laws of motion
Success Criteria				

Instructional Strategies	Lecture on forces and free-body diagrams. The fact that a force is a vector quantity will be discussed in this lesson. System diagrams and free-body diagrams will be explained in this class. Free- body diagrams will be used to calculate the net force of an object.	The goal of this lesson is to lecture on Newton's First law of motion and its technological applications. Examples will be given and related problems will be analyzed and solved.	The goal of this lesson is to lecture on Newton's second and third of motion. Examples will be given and related problems will be solved diagrams will be used to calculate the net force of an object.	The goal of this lesson is lecture on Tension and Newton's laws of motion.. Examples will be given and related problems will be solved.]
Assessment & Evaluation	Class Work [AAL]	Class Work [AAL]	Class Work [AAL]	Class Work [AAL]
Homework / Class Work	Class work on practice questions page 120 textbook	Class work on practice questions page 126 textbook	Class work on questions page 133 textbook.	Class work on questions on page 136 text-book
Materials & Resources	Nelson Physics 11 [Textbook]	Nelson Physics 11 [Textbook]	Nelson Physics 11 [Textbook]	Nelson Physics 11 [Textbook]