

Student Name: _____

Quality & Qualifications Ireland



Mechanics, 5N1638

Practical Assessment

Learner Record 20%

Skills Demonstration 40%

Teacher: Caroline Mc Mahon

Course Coordinator:

Internal Verification- Name & Date	
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Mechanics Practicals

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Ó Fiaich Institute of Further Education
Dundalk, Co. Louth



Assignment Submission Form

Learner's Name	
Subject Teachers Name	Caroline Mc Mahon
Course	7ENG
Module Title	Mechanics
Module Code	5N1638
Assignment Title	Vectors
Assignment No.	1 of 4
Maximum Marks	15% (10% Skills Demonstration + 5% Learner Record)

You MUST Retain A Copy of This Assignment/Project For Your Own Records and in The Event of You Being Asked For A Second Copy By Your Subject teacher.

Declaration of Original Work

Having read and understood the Policy on Assignment Submission I declare that I have carried out this assignment according to the guidelines in the attached brief and that the coursework I am now submitting is entirely my own work.

Signed:_____ **Date:**_____

This Submission Form must be attached as the first pages of your Assignment / Project and be submitted to your subject teacher on or prior to the due submission date.

A submission list must be signed for this booklet.

O'Fiaich Institute of Further Education

Assessment Brief 1 of 4

Module Title: Mechanics	Code: 5N1638
Teacher: Martin Coyne	Weighting: 15% (10% Skills Demonstration + 5% Learner Record)
Issue Date:	Due Date:

Skills Demonstration: Acceleration

1. Use your understanding of Vectors to demonstrate the practice of resolving two vectors into one both graphically and through calculation.
 - Using the data collected perform the necessary calculations and produce the necessary diagrams to satisfy the assignment brief.
 - Disassemble and return all equipment once the skills demonstration has finished.
 - **At all times demonstrate safe working procedures and ask the subject teacher for assistance/guidance where needed.**
- Learner Record should be completed in this booklet.

Assignment Guidelines:

- Practicals will be conducted on the date of issue above during normal class in laboratory room 48.
- All students must be present in the laboratory at the start of class time.
- Late comers will not be permitted to enter the laboratory which will result in up to 6% of the marks being lost on the skills demonstration.

Assessment Criteria:

- Up to 10% will be allocated for the skills demonstration. Marks will be awarded as outlined in the Skills demonstration marking guidelines at the back of this booklet.
- Up to 5% will be allocated to the learner record. Marks will be awarded as outlined in the Learner record marking guidelines at the back of this booklet.

Learning Outcomes:

- The above brief is based on learning outcomes 1 and 2.

I have read and understand the assignment guidelines fully:

Candidate's Signature: _____

Feedback Given: Yes ☐ No ☐ Date of Feedback: _____

Evidence that you have completed your skills demonstrations must be provided in photographic form.

Vectors

Aims:

Equipment:

Equipment Set Up (Labelled Drawing in Pencil):

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.


Readings (primary record):

Notes:

Observations (Primary Record):

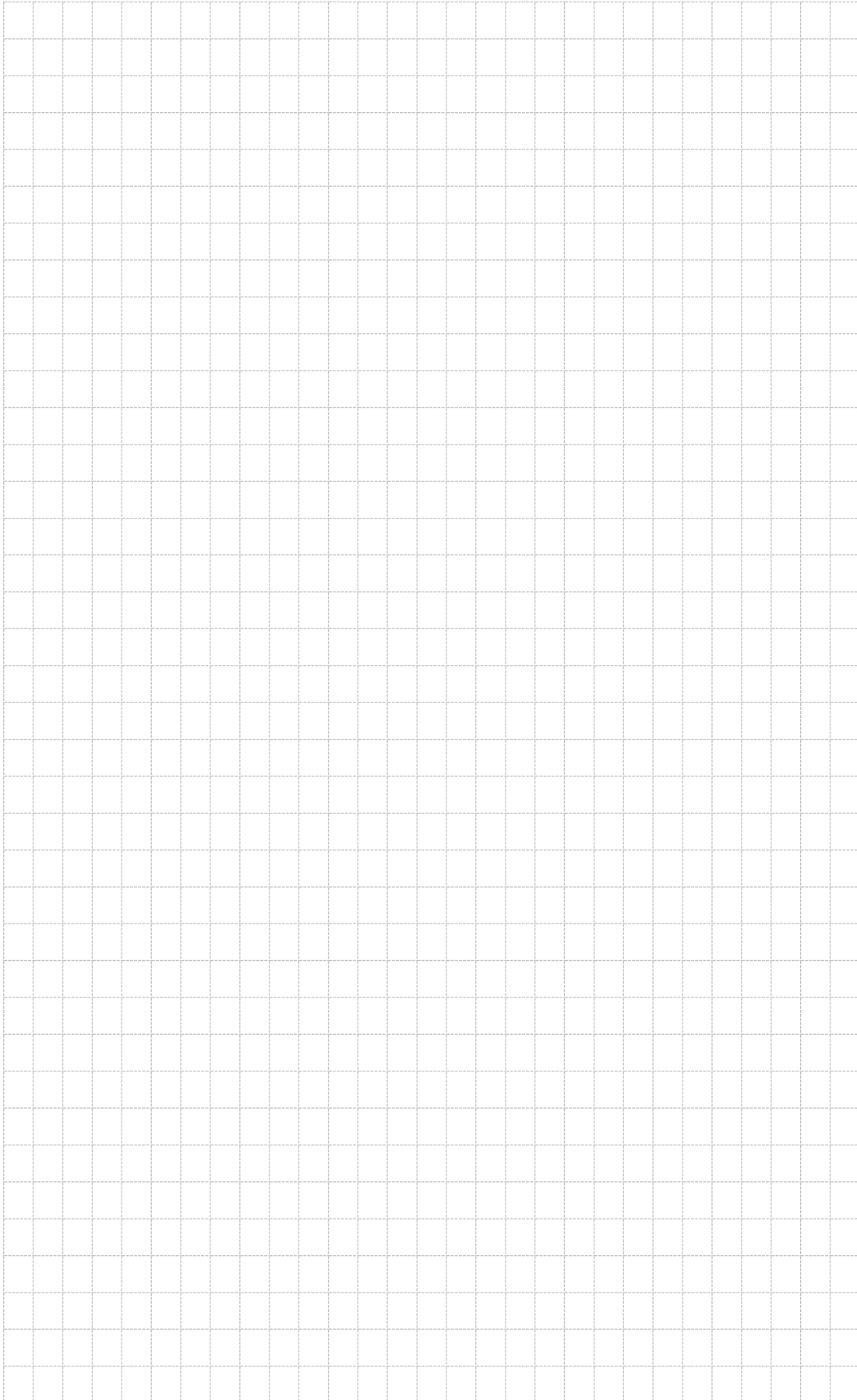
[illegible]

Calculations/Results:



Results:

Graph/Chart/Table (if required):



[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

[illegible][illegible]

To be completed by the teacher when booklet is being marked and assessed:

Continuous Assessment Feedback Form

	Teacher Feedback	Student Feedback
Due Date:	Strengths of Your Submission	Specific Advice on how to improve your work
<div style="border: 1px solid black; height: 80px;"></div>		
Percentage:		
<div style="border: 1px solid black; height: 100px;"></div>		
Grade:		
<input type="checkbox"/> Distinction		
<input type="checkbox"/> Merit		
<input type="checkbox"/> Pass	Student Feedback:	Student Feedback:
<input type="checkbox"/> Unsuccessful		
Oral Feedback Given:		
<div style="border: 1px solid black; height: 60px;"></div>		

Teacher Signature: _____

Student Signature: _____



Ó Fiaich Institute of Further Education
Dundalk, Co. Louth



Assignment Submission Form

Learner's Name	
Subject Teachers Name	Caroline Mc Mahon
Course	7ENG
Module Title	Mechanics
Module Code	5N1638
Assignment Title	Acceleration
Assignment No.	2 of 4
Maximum Marks	15% (10% Skills Demonstration + 5% Learner Record)

You MUST Retain A Copy of This Assignment/Project For Your Own Records and in The Event of You Being Asked For A Second Copy By Your Subject teacher.

Declaration of Original Work

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Signed: _____ Date: _____

This Submission Form must be attached as the first pages of your Assignment / Project and be submitted to your subject teacher on or prior to the due submission date.

A submission list must be signed for this booklet.

O'Fiaich Institute of Further Education

Assessment Brief 2 of 4

Module Title: Mechanics	Code: 5N1638
Teacher: Martin Coyne	Weighting: 15% (10% Skills Demonstration + 5% Learner Record)
Issue Date:	Due Date:

Skills Demonstration: Acceleration

1. **Use an suitable method to prove Newton's Second Law**
 - Using the data collected perform the necessary calculations and produce the necessary graphs to satisfy the assignment brief.
 - Disassemble and return all equipment once the skills demonstration has finished.
 - **At all times demonstrate safe working procedures and ask the subject teacher for assistance/guidance where needed.**
- Learner Record should be completed in this booklet.

Assignment Guidelines:

- Practicals will be conducted on the date of issue above during normal class in laboratory room 47 or 48.
- All students must be present in the laboratory at the start of class time.
- Late comers will not be permitted to enter the laboratory which will result in up to 10% of the marks being lost on the skills demonstration.

Assessment Criteria:

- Up to 10% will be allocated for the skills demonstration. Marks will be awarded as outlined in the Skills demonstration marking guidelines at the back of this booklet.
- Up to 5% will be allocated to the learner record. Marks will be awarded as outlined in the Learner record marking guidelines at the back of this booklet.

Learning Outcomes:

- The above brief is based on learning outcomes 1, 2, 3, 5 and 6.

I have read and understand the assignment guidelines fully:

Candidate's Signature: _____

Feedback Given: Yes ☐ No ☐ **Date of Feedback:** _____

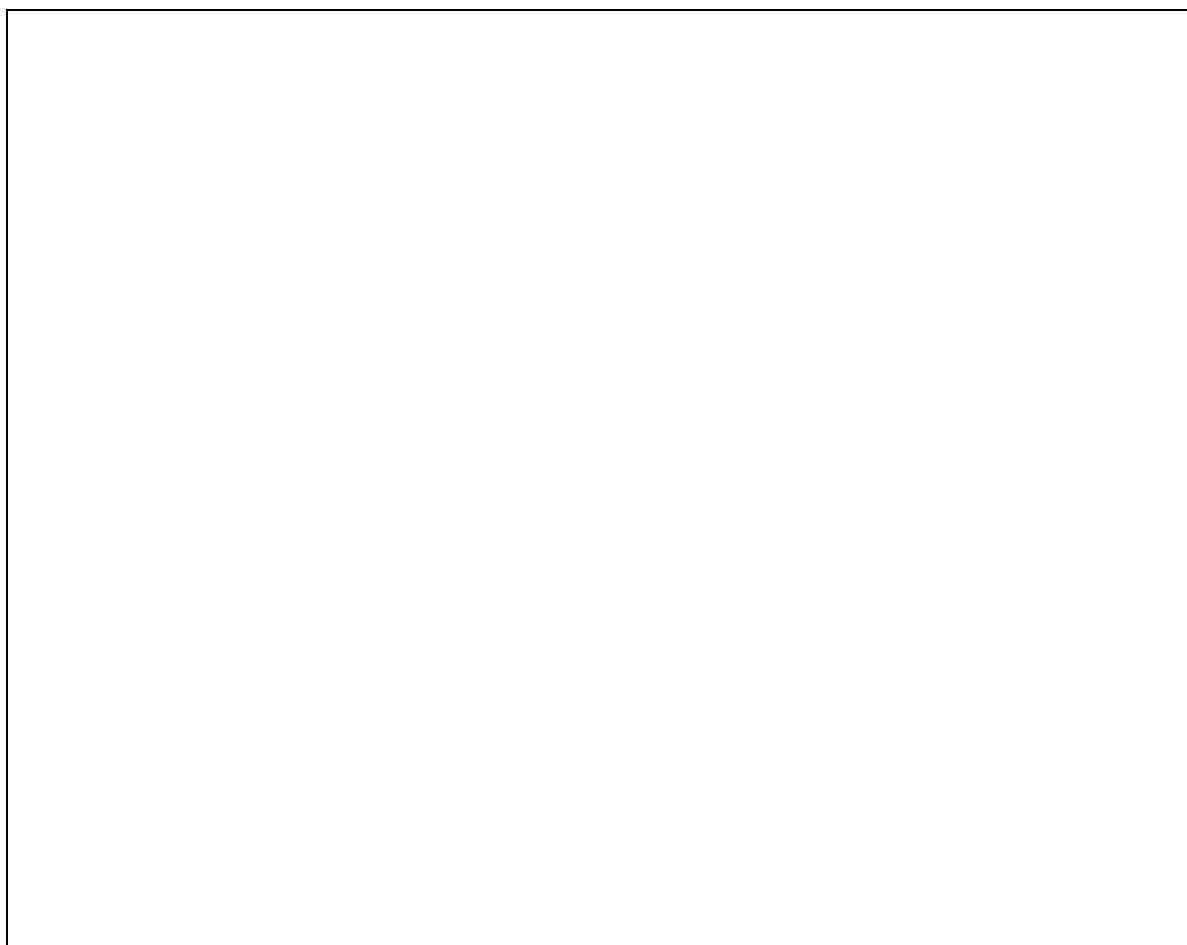
Evidence that you have completed your skills demonstrations must be provided in photographic form.

Acceleration: Newton's Second Law

Aims:

Equipment:

Equipment Set Up (Labelled Drawing in Pencil):



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.


Readings (primary record):

Notes:

Observations (Primary Record):

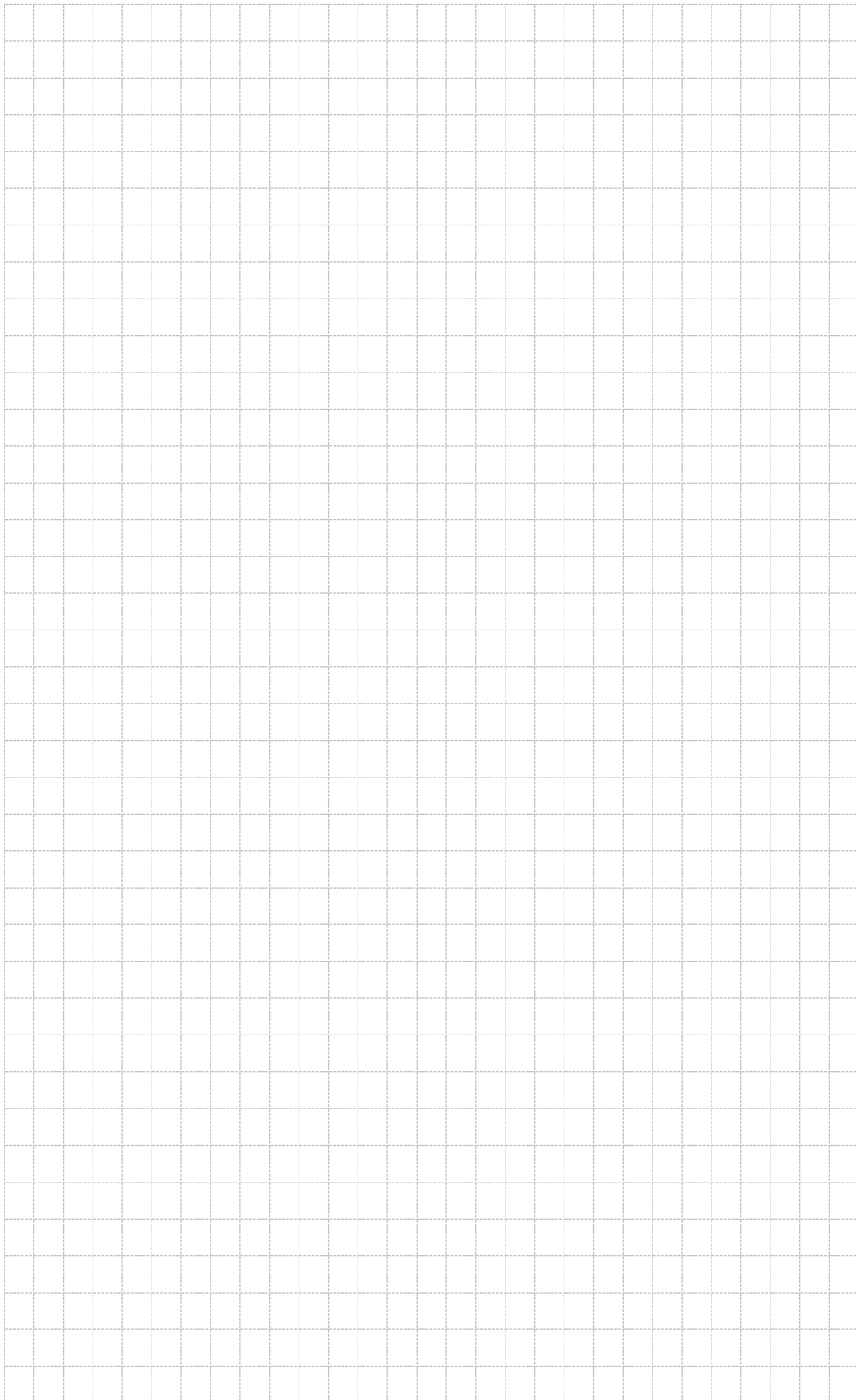
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Calculations:



Results:

Graph/Chart/Table (if required):



[illegible]

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Date	Time	Location	Weather	Wind	Temp	Humidity	Pressure	Notes

To be completed by the teacher when booklet is being marked and assessed:

Continuous Assessment Feedback Form

[illegible]

Teacher Signature: _____

Student Signature: _____



Ó Fiaich Institute of Further Education

Dundalk, Co. Louth



Assignment Submission Form

Learner's Name	
Subject Teachers Name	Caroline Mc Mahon
Course	7ENG
Module Title	Mechanics
Module Code	5N1638
Assignment Title	Co-planar forces
Assignment No.	3 of 5
Maximum Marks	15% (10% Skills Demonstration + 5% Learner Record)

You MUST Retain A Copy of This Assignment/Project For Your Own Records and in The Event of You Being Asked For A Second Copy By Your Subject teacher.

Declaration of Original Work

Having read and understood the Policy on Assignment Submission I declare that I have carried out this assignment according to the guidelines in the attached brief and that the coursework I am now submitting is entirely my own work.

Signed:_____ **Date:**_____

This Submission Form must be attached as the first pages of your Assignment / Project and be submitted to your subject teacher on or prior to the due submission date.

O'Fiaich Institute of Further Education

Assessment Brief 3 of 4

Module Title: Mechanics	Code: 5N1638
Teacher: Martin Coyne	Weighting: 15% (10% Skills Demonstration + 5% Learner Record)
Issue Date:	Due Date:

Skills Demonstration: Co-Planar Forces

1. **Use your understanding of Co-Planar forces to demonstrate the process of resolving a loaded suspended beam system in order to calculate and compare the resultant forces.**
 - Using the data collected perform the necessary calculations and produce the necessary graphs to satisfy the assignment brief.
 - Disassemble and return all equipment once the skills demonstration has finished.
 - **At all times demonstrate safe working procedures and ask the subject teacher for assistance/guidance where needed.**
- Learner Record should be completed in this booklet.

Assignment Guidelines:

- Practicals will be conducted on the date of issue above during normal class in laboratory room 48.
- All students must be present in the laboratory at the start of class time.
- Late comers will not be permitted to enter the laboratory which will result in up to 10% of the marks being lost on the skills demonstration.

Assessment Criteria:

- Up to 10% will be allocated for the skills demonstration. Marks will be awarded as outlined in the Skills demonstration marking guidelines at the back of this booklet.
- Up to 5% will be allocated to the learner record. Marks will be awarded as outlined in the Learner record marking guidelines at the back of this booklet.

Learning Outcomes:

- The above brief is based on learning outcomes 1, 2 and 7.

I have read and understand the assignment guidelines fully:

Candidate's Signature: _____

Feedback Given: Yes ☐ No ☐ **Date of Feedback:** _____

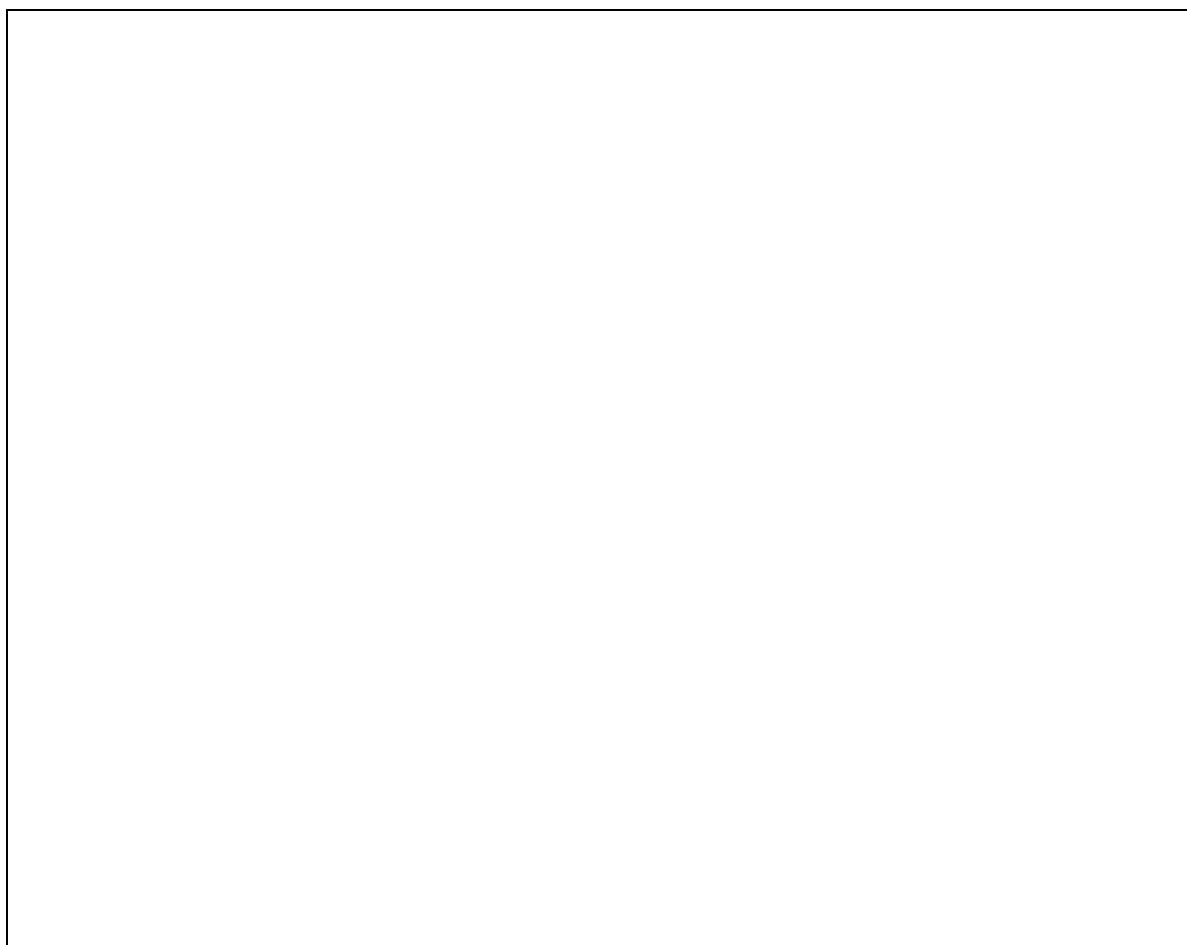
Evidence that you have completed your skills demonstrations must be provided in photographic form.

Co-Planar Forces

Aims:

Equipment:

Equipment Set Up (Labelled Drawing in Pencil):




This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Readings (primary record):

Notes:

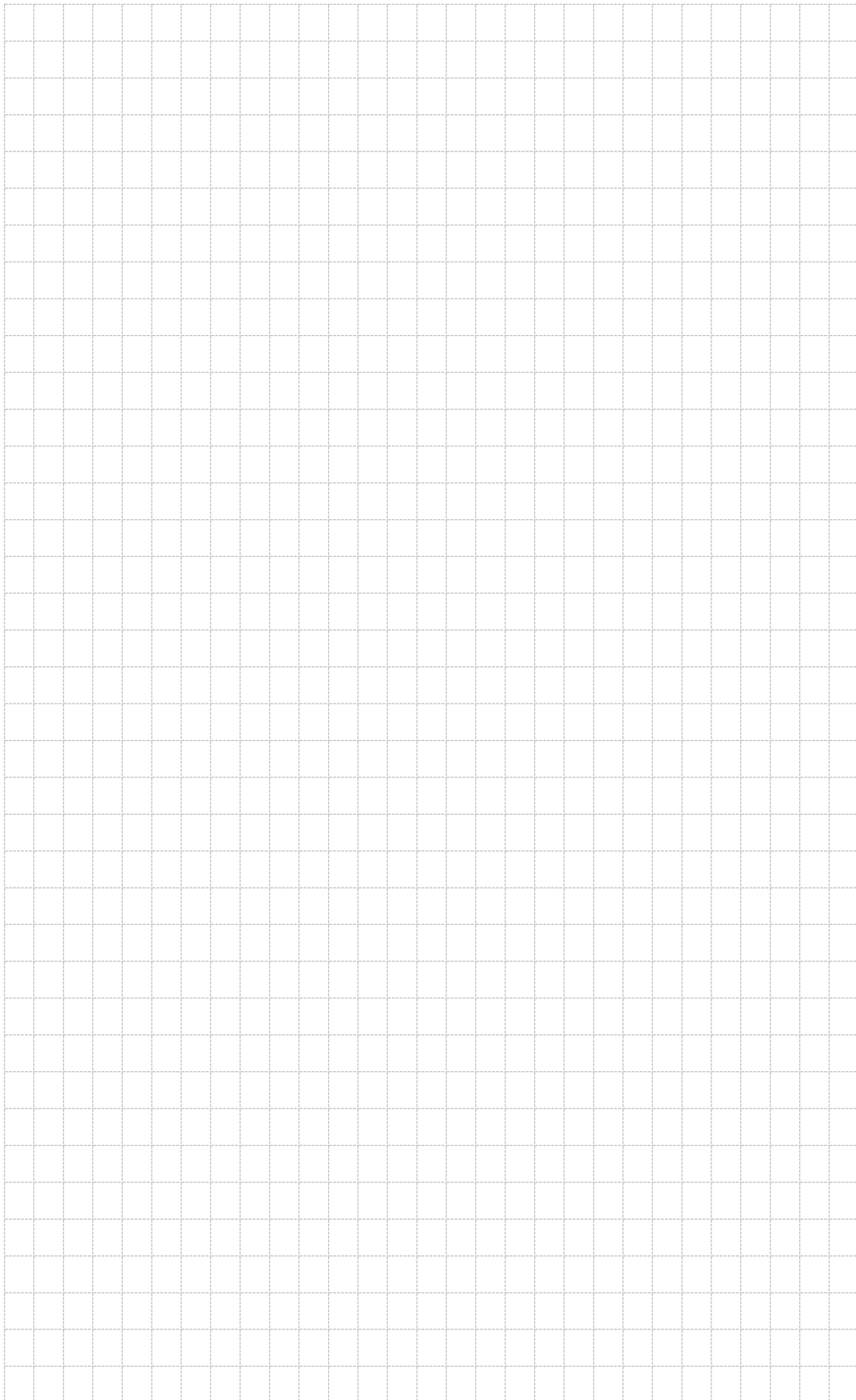
Observations (Primary Record):

Calculations:



Results:

Graph/Chart/Table (if required):



[illegible][illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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Case No.	Case Name	Case Type	Case Status	Case Date	Case Location	Case Description	Case Notes	Case Attachments
1	John Doe	Medical	Open	2023-01-01	New York	John Doe, 45 years old, male, reported a sudden onset of chest pain and shortness of breath on January 1, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	John Doe has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 20 years but quit 5 years ago.	Medical records, X-ray, ECG, and lab results.
2	Jane Smith	Medical	Closed	2023-01-05	California	Jane Smith, 32 years old, female, reported a sudden onset of severe abdominal pain on January 5, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Jane Smith has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
3	Michael Brown	Medical	Open	2023-01-10	Florida	Michael Brown, 60 years old, male, reported a sudden onset of dizziness and weakness on January 10, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Michael Brown has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 30 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
4	Sarah Johnson	Medical	Closed	2023-01-15	Texas	Sarah Johnson, 28 years old, female, reported a sudden onset of severe headache and nausea on January 15, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Sarah Johnson has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
5	David Wilson	Medical	Open	2023-01-20	Illinois	David Wilson, 55 years old, male, reported a sudden onset of chest pain and shortness of breath on January 20, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	David Wilson has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 25 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
6	Emily Davis	Medical	Closed	2023-01-25	Georgia	Emily Davis, 35 years old, female, reported a sudden onset of severe abdominal pain on January 25, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Emily Davis has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
7	Robert Miller	Medical	Open	2023-01-30	Arizona	Robert Miller, 65 years old, male, reported a sudden onset of dizziness and weakness on January 30, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Robert Miller has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 35 years but quit 15 years ago.	Medical records, X-ray, ECG, and lab results.
8	Lisa Anderson	Medical	Closed	2023-02-05	Colorado	Lisa Anderson, 25 years old, female, reported a sudden onset of severe headache and nausea on February 5, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Lisa Anderson has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
9	James Taylor	Medical	Open	2023-02-10	Washington	James Taylor, 50 years old, male, reported a sudden onset of chest pain and shortness of breath on February 10, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	James Taylor has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 20 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
10	Amanda White	Medical	Closed	2023-02-15	Oregon	Amanda White, 30 years old, female, reported a sudden onset of severe abdominal pain on February 15, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Amanda White has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
11	Christopher Lee	Medical	Open	2023-02-20	Idaho	Christopher Lee, 60 years old, male, reported a sudden onset of dizziness and weakness on February 20, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Christopher Lee has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 30 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
12	Michelle Garcia	Medical	Closed	2023-02-25	Montana	Michelle Garcia, 28 years old, female, reported a sudden onset of severe headache and nausea on February 25, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Michelle Garcia has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
13	Kevin Martinez	Medical	Open	2023-03-01	Wyoming	Kevin Martinez, 55 years old, male, reported a sudden onset of chest pain and shortness of breath on March 1, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	Kevin Martinez has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 25 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
14	Nicole Roberts	Medical	Closed	2023-03-05	Utah	Nicole Roberts, 32 years old, female, reported a sudden onset of severe abdominal pain on March 5, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Nicole Roberts has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
15	Brandon Clark	Medical	Open	2023-03-10	Nebraska	Brandon Clark, 60 years old, male, reported a sudden onset of dizziness and weakness on March 10, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Brandon Clark has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 30 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
16	Stephanie Hall	Medical	Closed	2023-03-15	South Dakota	Stephanie Hall, 28 years old, female, reported a sudden onset of severe headache and nausea on March 15, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Stephanie Hall has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
17	Gregory Young	Medical	Open	2023-03-20	North Dakota	Gregory Young, 55 years old, male, reported a sudden onset of chest pain and shortness of breath on March 20, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	Gregory Young has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 25 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
18	Angela King	Medical	Closed	2023-03-25	South Carolina	Angela King, 30 years old, female, reported a sudden onset of severe abdominal pain on March 25, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Angela King has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
19	Timothy Scott	Medical	Open	2023-03-30	Alabama	Timothy Scott, 60 years old, male, reported a sudden onset of dizziness and weakness on March 30, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Timothy Scott has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 30 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
20	Christina Adams	Medical	Closed	2023-04-05	Mississippi	Christina Adams, 28 years old, female, reported a sudden onset of severe headache and nausea on April 5, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Christina Adams has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
21	Jonathan Baker	Medical	Open	2023-04-10	Louisiana	Jonathan Baker, 55 years old, male, reported a sudden onset of chest pain and shortness of breath on April 10, 2023. He was taken to the hospital and diagnosed with a heart attack. He is currently recovering in the hospital.	Jonathan Baker has a history of high blood pressure and cholesterol. He was on medication for both conditions. He was also a smoker for 25 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
22	Victoria Nelson	Medical	Closed	2023-04-15	Arkansas	Victoria Nelson, 32 years old, female, reported a sudden onset of severe abdominal pain on April 15, 2023. She was taken to the hospital and diagnosed with a ruptured appendix. She underwent surgery and is currently recovering in the hospital.	Victoria Nelson has a history of irritable bowel syndrome. She was on medication for the condition. She was also a vegetarian for 10 years.	Medical records, X-ray, ECG, and lab results.
23	Benjamin Hill	Medical	Open	2023-04-20	Missouri	Benjamin Hill, 60 years old, male, reported a sudden onset of dizziness and weakness on April 20, 2023. He was taken to the hospital and diagnosed with a stroke. He is currently recovering in the hospital.	Benjamin Hill has a history of high blood pressure and diabetes. He was on medication for both conditions. He was also a smoker for 30 years but quit 10 years ago.	Medical records, X-ray, ECG, and lab results.
24	Rebecca Green	Medical	Closed	2023-04-25	Indiana	Rebecca Green, 28 years old, female, reported a sudden onset of severe headache and nausea on April 25, 2023. She was taken to the hospital and diagnosed with a migraine. She was treated with medication and is currently recovering in the hospital.	Rebecca Green has a history of migraines. She was on medication for the condition. She was also a vegetarian for 5 years.	Medical records, X-ray, ECG, and lab results.
25	Christopher Evans	Medical						

To be completed by the teacher when booklet is being marked and assessed:

Continuous Assessment Feedback Form

	Teacher Feedback	Student Feedback
Due Date:	Strengths of Your Submission	Specific Advice on how to improve your work
<div></div>		
Percentage:		
<div></div>		
Grade:		
<input type="checkbox"/> Distinction		
<input type="checkbox"/> Merit	Student Feedback:	
<input type="checkbox"/> Pass		
<input type="checkbox"/> Unsuccessful		
Oral Feedback Given:		
<div></div>		

Teacher Signature: _____

Student Signature: _____



Ó Fiaich Institute of Further Education

Dundalk, Co. Louth



Assignment Submission Form

Learner's Name	
Subject Teachers Name	Caroline Mc Mahon
Course	7ENG
Module Title	Mechanics
Module Code	5N1638
Assignment Title	Coefficient of Friction
Assignment No.	3 of 4
Maximum Marks	15% (10% Skills Demonstration + 5% Learner Record)

You MUST Retain A Copy of This Assignment/Project For Your Own Records and in The Event of You Being Asked For A Second Copy By Your Subject teacher.

Declaration of Original Work

Having read and understood the Policy on Assignment Submission I declare that I have carried out this assignment according to the guidelines in the attached brief and that the coursework I am now submitting is entirely my own work.

Signed:_____ **Date:**_____

This Submission Form must be attached as the first pages of your Assignment / Project and be submitted to your subject teacher on or prior to the due submission date.

O'Fiaich Institute of Further Education

Assessment Brief 4 of 4

Module Title: Mechanics	Code: 5N1638
Teacher: Martin Coyne	Weighting: 15% (10% Skills Demonstration + 5% Learner Record)
Issue Date:	Due Date:

Skills Demonstration: Coefficient of Friction

- From your understanding of Friction demonstrate and prove that the coefficient of friction between any two surfaces is directly related to the force moving the object and the normal reaction force due to the weight of the object.
 - Using the data collected perform the necessary calculations and produce the necessary graphs to satisfy the assignment brief.
 - Disassemble and return all equipment once the skills demonstration has finished.
 - At all times demonstrate safe working procedures and ask the subject teacher for assistance/guidance where needed.
- Learner Record should be completed in this booklet.

Assignment Guidelines:

- Practicals will be conducted on the date of issue above during normal class in laboratory room 48.
- All students must be present in the laboratory at the start of class time.
- Late comers will not be permitted to enter the laboratory which will result in up to 10% of the marks being lost on the skills demonstration.

Assessment Criteria:

- Up to 10% will be allocated for the skills demonstration. Marks will be awarded as outlined in the Skills demonstration marking guidelines at the back of this booklet.
- Up to 5% will be allocated to the learner record. Marks will be awarded as outlined in the Learner record marking guidelines at the back of this booklet.

Learning Outcomes:

- The above brief is based on learning outcomes 1, 2, 5, 6 and 13.

I have read and understand the assignment guidelines fully:

Candidate's Signature: _____

Feedback Given: Yes ☐ No ☐ **Date of Feedback:** _____

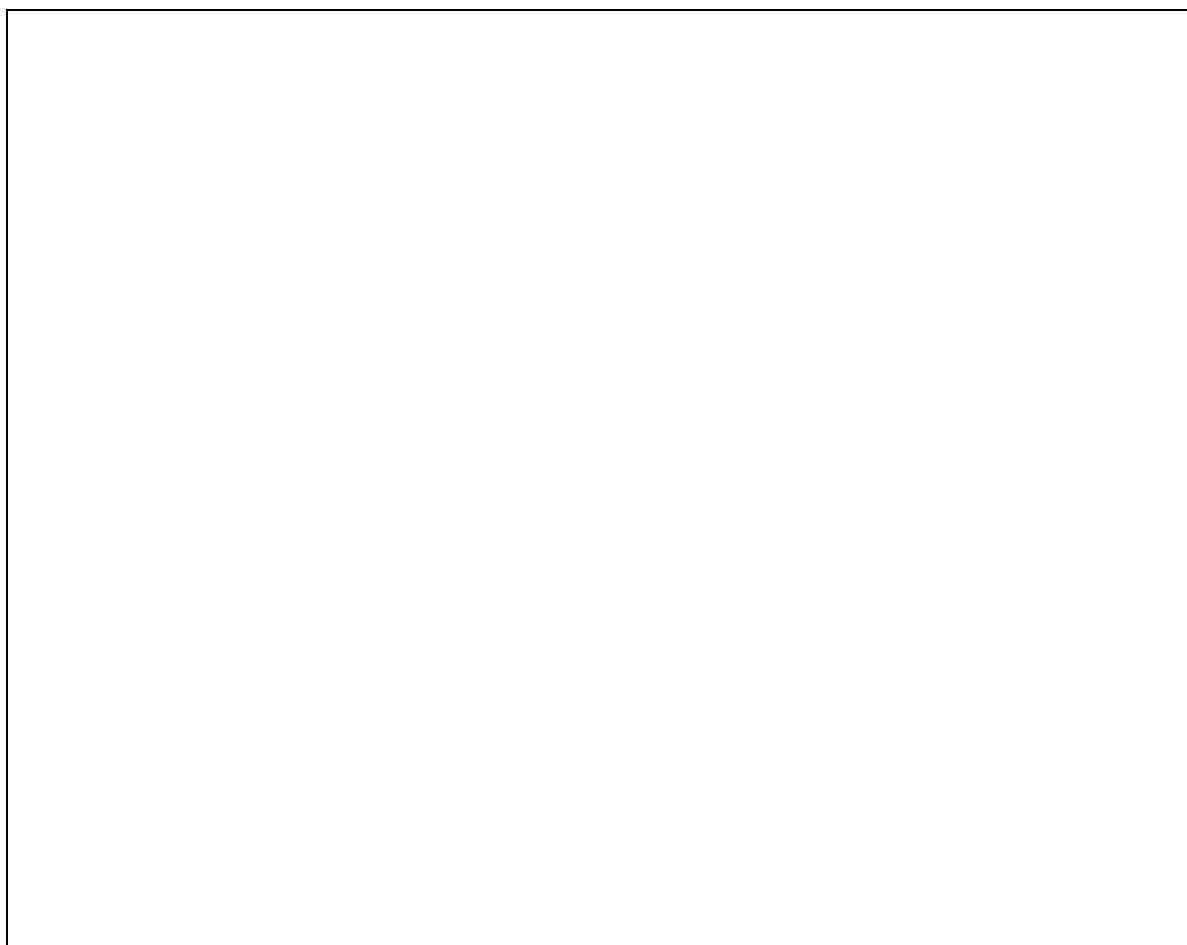
Evidence that you have completed your skills demonstrations must be provided in photographic form.

Coefficient of Friction

Aims:

Equipment:

Equipment Set Up (Labelled Drawing in Pencil):



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Readings (primary record):

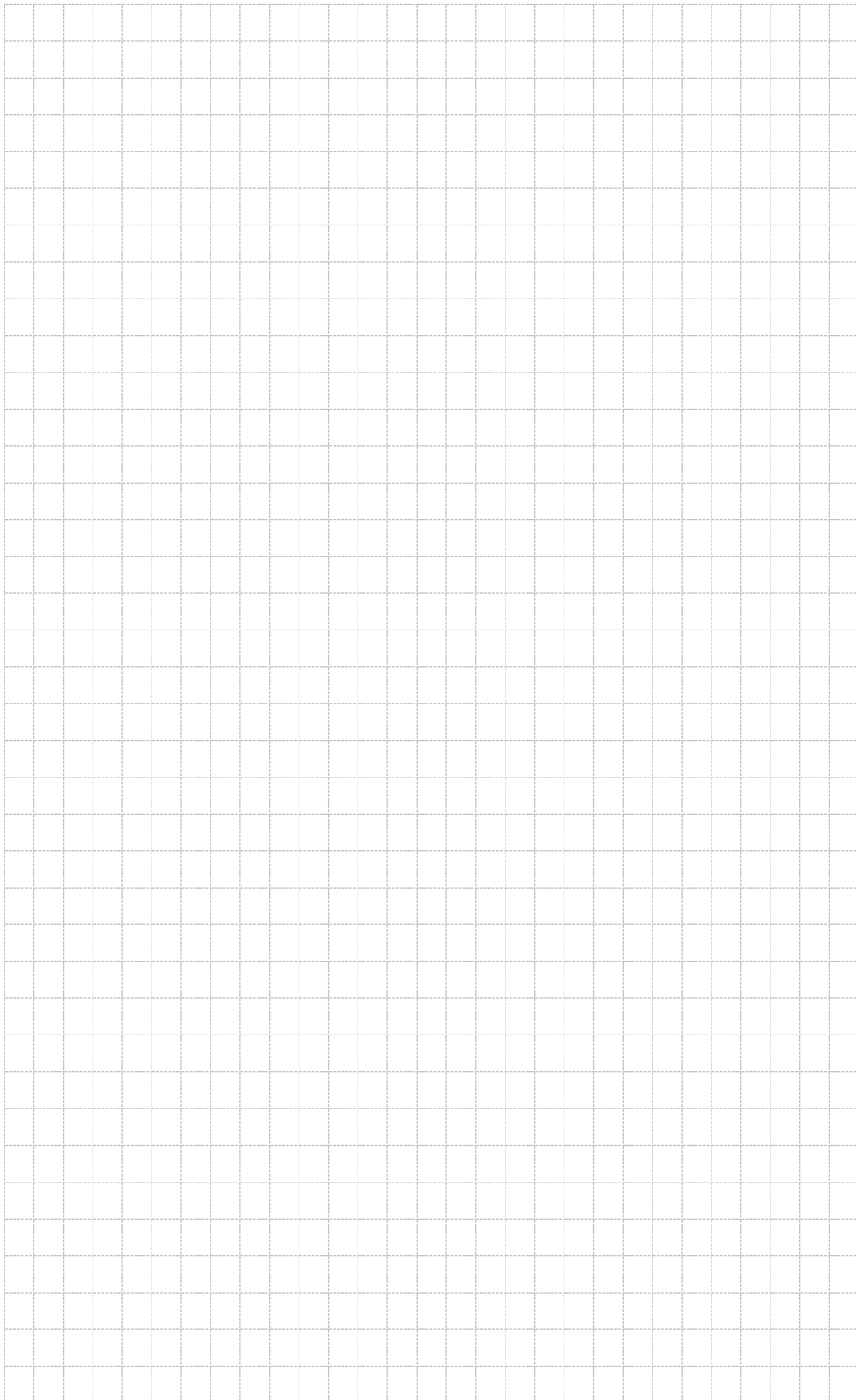
Notes:

Observations (Primary Record):

Calculations:

Results:

Graph/Chart/Table (if required):



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[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

To be completed by the teacher when booklet is being marked and assessed:

Continuous Assessment Feedback Form

[illegible]

Teacher Signature: _____

Student Signature: _____

Learner Record Marking Sheet [Mechanics 5N1638]

Assignment Title: Vectors

Accurate description of aims, materials and methodology	Maximum Mark	Marks Breakdown	Learner Mark
Aims	1	1 x 1	
Materials/Equipment	2	2 x 1	
Methodology/Processes	2	2 x 1	
Sub Total	5		

Concise record of results and observations, including a primary record	Maximum Mark	Marks Breakdown	Learner Mark
Results and/or Readings	5	5 x 1	
Observations			
Sub Total	5		

Comprehensive analysis of results and interpretation of observations	Maximum Mark	Marks Breakdown	Learner Mark
Analysis of results	5	5 x 1	
Interpretation of observations			
Sub Total	5		

Logical conclusions based on results and/or observations	Maximum Mark	Marks Breakdown	Learner Mark
Conclusions	5	5 x 1	
Sub Total	5		

Learner Record Marking Sheet [Mechanics 5N1638]

Assignment Title: Acceleration

Accurate description of aims, materials and methodology	Maximum Mark	Marks Breakdown	Learner Mark
Aims	1	1 x 1	
Materials/Equipment	2	2 x 1	
Methodology/Processes	2	2 x 1	
Sub Total	5		

Concise record of results and observations, including a primary record	Maximum Mark	Marks Breakdown	Learner Mark
Results and/or Readings	5	5 x 1	
Observations			
Sub Total	5		

Comprehensive analysis of results and interpretation of observations	Maximum Mark	Marks Breakdown	Learner Mark
Analysis of results	5	5 x 1	
Interpretation of observations			
Sub Total	5		

Logical conclusions based on results and/or observations	Maximum Mark	Marks Breakdown	Learner Mark
Conclusions	5	5 x 1	
Sub Total	5		

Learner Record Marking Sheet [Mechanics 5N1638]

Assignment Title: Co-Planar Forces

Accurate description of aims, materials and methodology	Maximum Mark	Marks Breakdown	Learner Mark
Aims	1	1 x 1	
Materials/Equipment	2	2 x 1	
Methodology/Processes	2	2 x 1	
Sub Total	5		

Concise record of results and observations, including a primary record	Maximum Mark	Marks Breakdown	Learner Mark
Results and/or Readings	5	5 x 1	
Observations			
Sub Total	5		

Comprehensive analysis of results and interpretation of observations	Maximum Mark	Marks Breakdown	Learner Mark
Analysis of results	5	5 x 1	
Interpretation of observations			
Sub Total	5		

Logical conclusions based on results and/or observations	Maximum Mark	Marks Breakdown	Learner Mark
Conclusions	5	5 x 1	
Sub Total	5		

Learner Record Marking Sheet [Mechanics 5N1638]

Assignment Title: Coefficient of Friction

Accurate description of aims, materials and methodology	Maximum Mark	Marks Breakdown	Learner Mark
Aims	1	1 x 1	
Materials/Equipment	2	2 x 1	
Methodology/Processes	2	2 x 1	
Sub Total	5		

Concise record of results and observations, including a primary record	Maximum Mark	Marks Breakdown	Learner Mark
Results and/or Readings	5	5 x 1	
Observations			
Sub Total	5		

Comprehensive analysis of results and interpretation of observations	Maximum Mark	Marks Breakdown	Learner Mark
Analysis of results	5	5 x 1	
Interpretation of observations			
Sub Total	5		

Logical conclusions based on results and/or observations	Maximum Mark	Marks Breakdown	Learner Mark
Conclusions	5	5 x 1	
Sub Total	5		

Skills Demonstration Marking Sheet [Mechanics 5N1638]

Assignment Title: Vectors

Effective execution of practical investigations including adherence to health and safety procedures	Maximum Mark	Learner Mark
Knowledge of equipment and materials	3	
Correct set-up of equipment (apparatus)	2	
Accurate handling and use of equipment and materials	2	
Competent execution of procedure/process/method	3	
Reduction of process errors	2	
Use of appropriate PPE	2	
Safe handling of equipment, tools and materials	3	
General adherence to laboratory health and safety practices	3	
Sub Total	20	

Accurate recording of measurements and/or observations	Maximum Mark	Learner Mark
Recording of measurements	20	
Recording of observations		
Sub Total	20	

Skills Demonstration Marking Sheet [Mechanics 5N1638]

Assignment Title: Acceleration

Effective execution of practical investigations including adherence to health and safety procedures	Maximum Mark	Learner Mark
Knowledge of equipment and materials	3	
Correct set-up of equipment (apparatus)	2	
Accurate handling and use of equipment and materials	2	
Competent execution of procedure/process/method	3	
Reduction of process errors	2	
Use of appropriate PPE	2	
Safe handling of equipment, tools and materials	3	
General adherence to laboratory health and safety practices	3	
Sub Total	20	

Accurate recording of measurements and/or observations	Maximum Mark	Learner Mark
Recording of measurements	20	
Recording of observations		
Sub Total	20	

Skills Demonstration Marking Sheet [Mechanics 5N1638]

Assignment Title: Co-planar Forces

Effective execution of practical investigations including adherence to health and safety procedures	Maximum Mark	Learner Mark
Knowledge of equipment and materials	3	
Correct set-up of equipment (apparatus)	2	
Accurate handling and use of equipment and materials	2	
Competent execution of procedure/process/method	3	
Reduction of process errors	2	
Use of appropriate PPE	2	
Safe handling of equipment, tools and materials	3	
General adherence to laboratory health and safety practices	3	
Sub Total	20	

Accurate recording of measurements and/or observations	Maximum Mark	Learner Mark
Recording of measurements	20	
Recording of observations		
Sub Total	20	

Assignment Title: Coefficient of Friction
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Effective execution of practical investigations including adherence to health and safety procedures	Maximum Mark	Learner Mark
Knowledge of equipment and materials	3	
Correct set-up of equipment (apparatus)	2	
Accurate handling and use of equipment and materials	2	
Competent execution of procedure/process/method	3	
Reduction of process errors	2	
Use of appropriate PPE	2	
Safe handling of equipment, tools and materials	3	
General adherence to laboratory health and safety practices	3	
Sub Total	20	

Accurate recording of measurements and/or observations	Maximum Mark	Learner Mark
Recording of measurements	20	
Recording of observations		
Sub Total	20	

Mechanics 5N1638	Learner Marking Sheet Skills Demonstration 40% Learner Record 20%
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Learner's Name: _____

Learner's PPSN: _____

Assessment Criteria	Maximum Mark	Learner Mark
Skills Demonstration		
<ul style="list-style-type: none"> effective execution of practical investigations including adherence to health and safety procedures 	20	
<ul style="list-style-type: none"> accurate recording of measurements and/or observations 	20	
Subtotal	40	
Learner Record		
<ul style="list-style-type: none"> accurate description of aims, material and methodology 	5	
<ul style="list-style-type: none"> concise record of results and observations, including a primary record 	5	
<ul style="list-style-type: none"> comprehensive analysis of results and interpretation of observations 	5	
<ul style="list-style-type: none"> logical conclusions based on results and observations 	5	
Subtotal	20	
Total Mark	60	

Assessor's Signature: _____

Date: _____

External Authenticator's Signature: _____

Date: _____

Learner Record Marking Guidelines:

Comprehensive description of aims, equipment, materials and methodology

- **Aims:** Two points based on what you plan to achieve in this experiment/investigation. Bullet points or short paragraph is acceptable, must not be a mini procedure. (1 mark)
- **Equipment and Materials:** A list of all equipment used in the experiment. (1marks)
A diagram of the equipment set-up (in pencil) (1 marks)
- **Method/Procedure:** At least 8 points outlining the step by step process used conducting the investigation. (2 marks)

Accurate record of results and/or observations, including a primary record

- **Observations/(Readings):** Readings comprise of the data taken from the experiment/investigation. Readings are generally presented in a table. Observations are critical parts of the experiment/investigation that are worth noting. All experiments/investigations require at least 2 observations. (2 marks)
- **Results:** Results are the outcomes of any calculations/graphs/trigonometric or geometric layouts performed after the investigation. Depending on the nature of the experiment/investigation results could also be a written statement clarifying the experimental outcomes. (3 marks)

Comprehensive analysis of results and interpretation of observations

- **Interpretation of Observations/Analysis of Results:** Explain the impact that the observations you previously listed have on the results/outcomes of the experiment. To explain the meaning/impact/implication of the results they will need to be analysed. Source of error that were not/could not be eliminated from the experiment and their impact on the results can be discussed here. (5 marks)

Logical conclusions based on results and/or observations

- **Conclusion:** This is a detailed account of the critical aspects of the experiment/investigation. It should reinforce the analysis and explain the meaning of the observations and results. The conclusion is not a summary of the experiment. (5 marks)

TOTAL MARKS 30 WILL BE DIVIDED BY 4 FOR THE FINAL MARK.

Skills Demonstration Marking Guidelines:

During the skills demonstration you will be observed and marked on the following:

Assembling and handling equipment and materials:

- Knowledge of equipment and materials (4x1) (3 marks)
- Correct set-up of equipment (apparatus) (2 marks)
- Accurate handling and use of equipment and materials (2 marks)

Implementation of process and/or following guidelines and instructions:

- Competent execution of procedure/process/method (6 steps x 1) (3 marks)
- Reduction of process errors (4 x 1) (2 marks)

Safe working practices

- Use of appropriate PPE (2 marks)
- Safe handling of equipment, tools and materials (3 marks)
- General adherence to laboratory health and safety practices (3 marks)

Accurate recording of measurements and/or observations:

- Recording of measurements (20 marks)
- Recording of observations

Evidence that you have completed your skills demonstrations must be provided in photographic form.

TOTAL MARKS 40 WILL BE DIVIDED BY 4 FOR THE FINAL MARK.