Senior Phase Physics
Family Learning

N5 Course Structure

Physics

3 Units:

1. Waves and Radiation

2. Dynamics and Space

3. Electricity and Gas Laws

80% of the course is based on the final exam and 20% on the assignment task which is completed in class.

Course will finish around **mid-December** and pupils will begin Higher Physics.

An in-class revision programme for N5 will begin from March-April.

Higher Course Structure

Physics

3 Units:

1. Our Dynamic Universe

2. Particles and Waves

3. Electricity

80% of the course is based on the final exam and 20% on the assignment task which is completed in class.

Course will finish around **mid-March.**

An in-class revision programme will begin once the course is completed.

Advanced Higher Course Structure

Physics

3 Units:

1. Rotational Motion and Astrophysics

2. Quanta and Waves

3. Electromagnetism

75% of the course is based on the final exam and 25% on the Advanced Higher Project which is completed throughout the year.

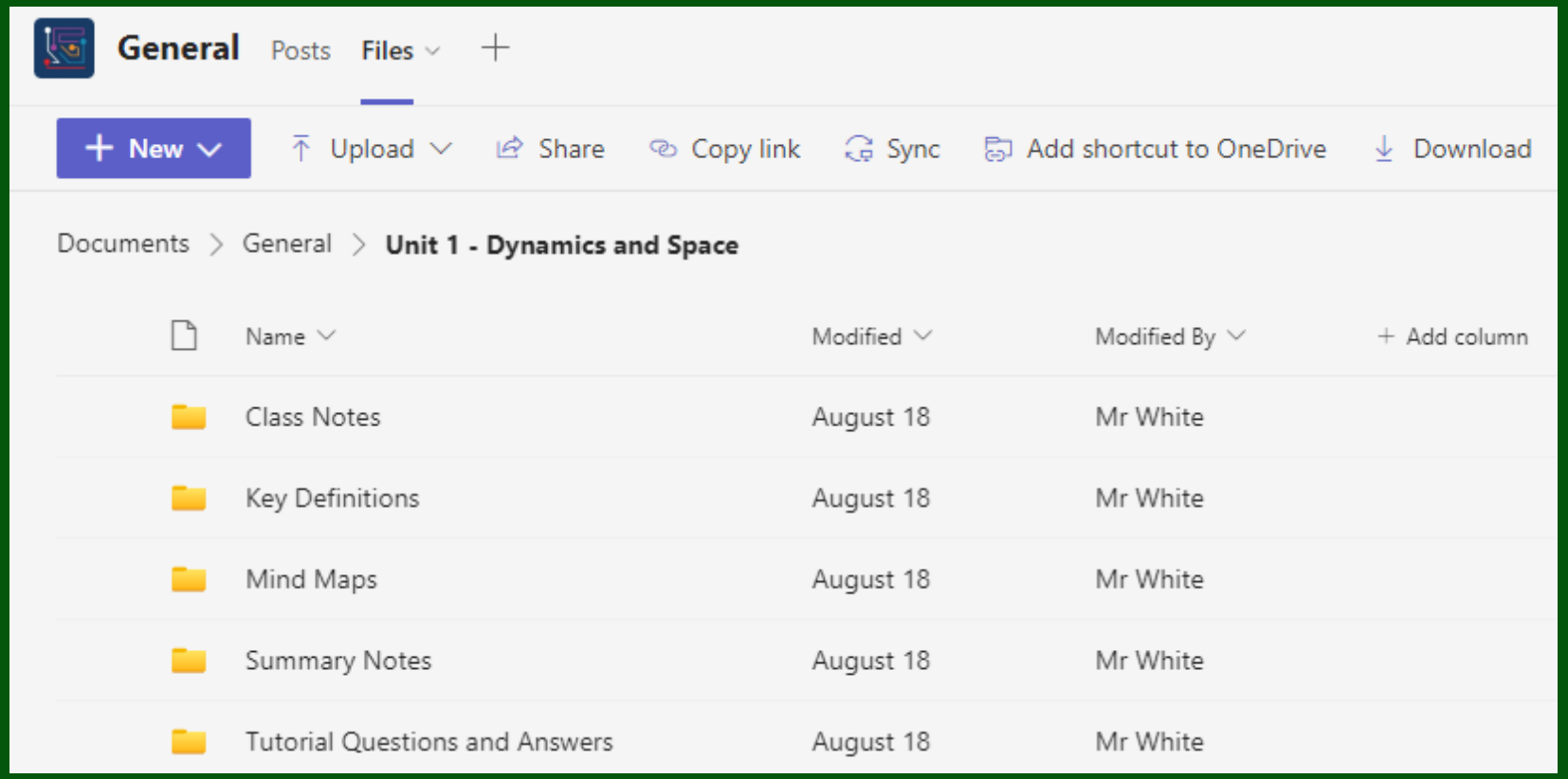
Course will finish around **mid-March.**

An in-class revision programme for will begin once the course is completed.

Teams Pages

Physics

- Resources are available to pupils on their class teams page.
- Pupils are also given printed copies of tutorial questions with answers.



Revision Advice

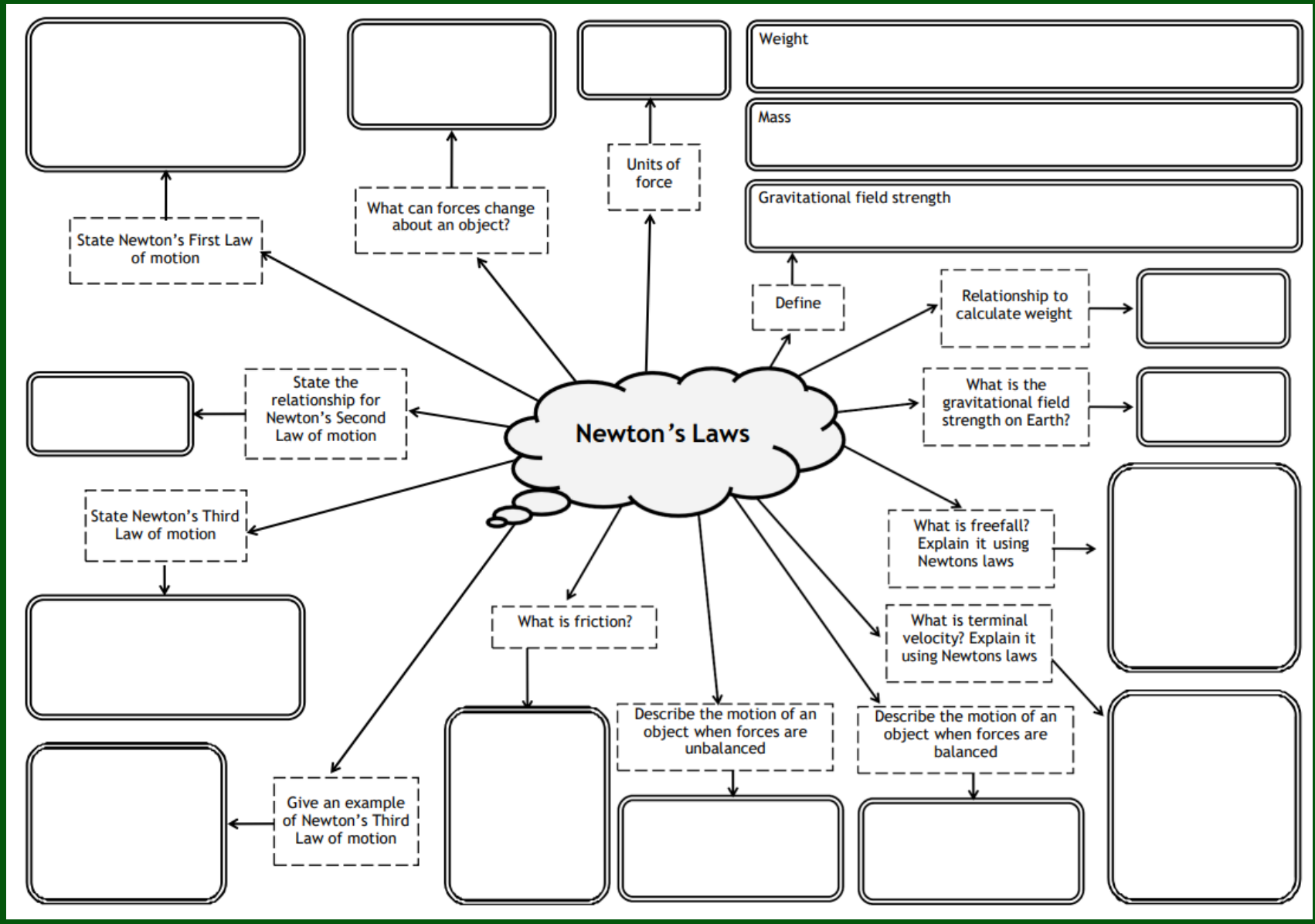
Physics

Select area of course for revision (e.g. Newtons Laws)

Read and **Review** notes on that area (flashcards, mind maps, summary notes)

Example: Mind Maps

Physics



Revision Advice

Physics

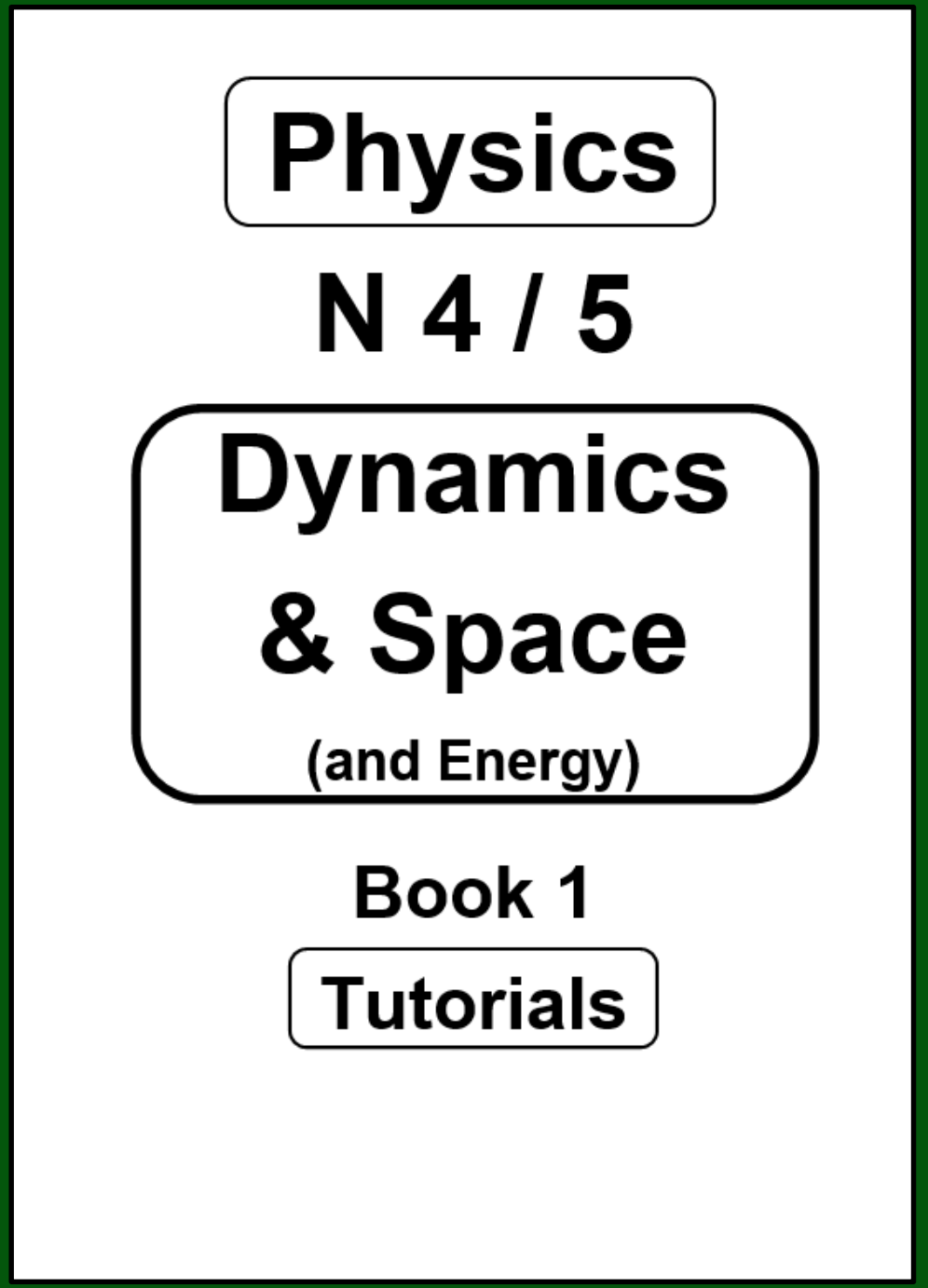
Select area of course for revision (e.g. Newtons Laws)

Read and **<u>Review</u>** notes on that area (flashcards, mind maps, summary notes)

Try the associated **problems** (tutorials and then past papers)

Tutorials

- All pupils given physical booklets with answers on the back pages.
- Problem practice is key to success in Physics.
- Increasing in difficulty with some past paper questions at the end.
- Digital copies on the class Teams pages.



Past Papers

Physics

- Access to past paper questions by topic is available through PDF on the class teams page.
- This document has hyperlinks to questions by topic.
- Answers and marking scheme are immediately below the questions.
- Students can print and highlight the contents table to track progress.

This is a Key Resource!!!

Past Papers

Physics

	2014		2015		2016		2017		SPQ		2018		2019	
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2
Vectors and Scalars	14,15	11c	14	7	14	9	14	8a,c	1,2	b	1,2	1a(i),2	1	1
v-t graphs and Acceleration		10	15	8	15	10a,b	15,16	8b		1a,c		2a(iii), b,c	2,3	2a(i),2b
Newton's Laws	17	10a(iii) 11a,b 12a,c-e	17,18	7b,10c	17	12a,c	17	9	3,4,7	2a	3	1a		1d, 2a(ii), 2a(iii)
Energy	4,16		16	11a	16		1		5,6	2c(ii)	4	3a,b		9c
Projectile motion	19			9	18			11a,b				3c	4, 6	
Space exploration and Cosmology	18		19,20		20	13c,d	18,20	12	7,8	2,3	5,6,7, 8,9,10	4	7	4
Electrical Charge Carriers					2	1	2	1b	9,10		11,12	6c	8	
Voltage, Ohm's Law & Circuit rules	1,2,3	1b, 2	1,2,3	1	1,3,4	2,3c, 12b	3,4	2a(i) 2b(i)	11,12, 14	5a,6	13,14	6a,b	9,10, 11,12	6
Electrical Power & Energy		1a	4	2		3b		1a,2, 11c		5b	4,15	8b		6a(ii),b(ii)
Specific heat Capacity & Specific latent heat	20	3			19	3a	5,19		13,15	7	16	8a,c	13	7
Gas laws & the kinetic model	5,6,7	12b	5,6	5d	5,6,7	13b	6,7	3	16,17	8	17, 18,19	1b,9	15,16	8
Wave parameters & behaviours	8	4a	7	3	8,9, 10		8 ,9,10	4	18,19	9	20	10,11b	17,18, 19	9a,b
Electromagnetic spectrum	9		8			4	11	b(i)	20		21	11a		10
Refraction of light		4b		5a-c	11	6	12		21			11c	20	11
Nuclear radiation	10,11, 12,13	6,8	9,10, 11,12, 13	6	12,13	7, 8, 13a	13	6,7	22,23, 24,25	11,12	23,24, 25	12,13	21,22, 23,24, 25	12,13
Open ended		7,9		4 , 10		5, 11		5,10		4,10		5,7		3,13
Unseen formula/PS		5								2d	22		5,14	
Experimental Methods				11b,c										5

Past Papers

Physics

	2014		2015	
	P1	P2	P1	P2
Vectors and Scalars	14,15	11c	14	7
v-t graphs and Acceleration		10	15	8
Newton's Laws	17	10a(iii) 11a,b 12a,c-e	17,18	7b,10c

Pupils can work along each topic answering the questions.

Revision Advice

Physics

Select area of course for revision (e.g. Newtons Laws)

Read and **Review** notes on that area (flashcards, mind maps, summary notes)

Try the associated **problems** (tutorials and then past papers)

Check knowledge with **SQA course check list**

Course Checklist

Physics

National 5 Physics

Study Checklist

Name: _____

Revision Advice

Physics

Select area of course for revision (e.g. Newtons Laws)

Read and **Review** notes on that area (flashcards, mind maps, summary notes)

Try the associated **problems** (tutorials and then past papers)

Check knowledge with **course check list**

Move on to the next area.

Complete **full past papers** (timed) and log results.

Past Paper Tracker

Physics

National 5 Physics - Past Paper Log **Name:**

Year	Section 1				
	Completed	Marked	Mark (/25)	Percentage	Questions Wrong
example	✓	✓	*14*	*56%*	*Q3,4,12,14,15,19,20,22,23,24,25*
2023					
2022					
2020					
2019					
2018					
2017					
2016					
2015					
2014					
SQA Mock					

Year	Section 2				
	Completed	Marked	Mark (/110)	Percentage	Questions Wrong
example	✓	✓	*78*	*71%*	*Q2a + b, Q4, Q5, Q6b, Q9a, Q11*
2023					
2022					
2020					
2019					
2018					
2017					
2016					
2015					
2014					
SQA Mock					

Extra Support

Physics

Supported Study

- Supported study sessions available after school – sign up sheets are hanging up in the department
- Come prepared with questions.

Lunchtime Drop-in (1:10 – 1:50)

- Any member of the Physics department will be able to help but please ensure pupils come prepared with questions.

In-Class Revision Programme

- Pupils will have time to ask for assistance when revising in class.

Parental Support

Physics

To support your child with Physics you could:

- Encourage them to complete the past papers and monitor their progress using the contents page or past paper log.
- Review the advice in the pupils study guide booklet and encourage your child to follow the guidance.
- Help them recall equations and definitions by reading terms on the definition sheets and asking them to respond.
- Checking mind maps and using them to ask questions to your child.