

Supporting Pupils @ Home

2020-2021



N5 Physics

Course Information ... specific for 2020-21

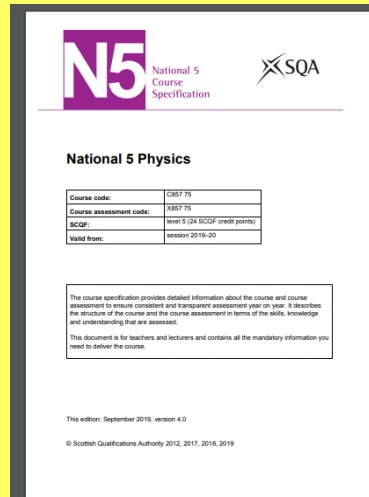
The screenshot shows the SQA website interface. At the top left is the SQA logo. To its right is a navigation bar with 'National Qualifications 2020/21' highlighted in orange, a site search box, and user options like 'I am a...', 'Choose Country', and 'Sign in'. Below this is a dark blue navigation menu with 'Qualifications', 'Services', 'Past Papers', 'About SQA', and 'Support'. The breadcrumb trail reads 'Home > National Qualifications > Subjects > Physics'. On the left is a 'Subjects' dropdown menu with 'National Qualifications' selected. The main content area has a 'Physics' sub-menu with options for 'National 3', 'National 4', 'National 5', 'Higher', and 'Adv Higher'. Under 'See also:', there are links for 'Freestanding units', 'National 2 Science in the Environment', and 'Scottish Baccalaureate in Science'. Below this are three expandable sections: 'Subject updates', 'Arrangements for National 3 and National 4 in session 2020-21', and 'National 5 to Advanced Higher Course information for 2020-21'. The third section is expanded, showing a date of '07 October 2020' and a link to 'National Course modification summary: Physics'. A yellow arrow points from the text box on the right to this link.

The main Physics page on the SQA website <https://www.sqa.org.uk/sqa/45729.html> has a link to **Course Information** specific for this unusual session of 2020-21

Course Information ... structure and content

The N5 Physics page on the SQA website.. <https://www.sqa.org.uk/sqa/47430.html>

has a link to the **Course Specifications**, which gives details of the course content.



The screenshot shows the SQA website interface for National Qualifications 2020/21. The 'National 5 Physics' page is selected. A navigation menu on the left lists various resources: NQ home, National Qualifications in 2020-21, Subjects, Baccalaureates, Skills for Work, Unit search, Exams and results, About National Qualifications, Support and resources, Understanding Standards, Quality Assurance, and Developing learners' skills. The main content area displays a list of links for National 5 Physics, each with a plus sign to expand: Subject updates, Gathering evidence for National 5 estimates, National 5 to Advanced Higher Course information for 2020-21, Course Specification, Past Papers and Marking Instructions, Coursework, Course reports, and Understanding Standards. A 'Receive updates' button is also visible.

It also has a link to **Past Papers**, and the marking instructions for these. It also has a link to the **SQA Understanding Standards** website. These are all extremely valuable resources that will help your child progress, and in preparing for their N5 course assessment.

Course information ... Topics

The Course consists of six **Topics** ...*which used to be combined into three Units:*

1: Dynamics

2: Space

3: Electricity

4: Properties of Matter

5: Waves

6: Radiation

plus : **Assignment**

More detail of the content covered in each **Topic** can be seen in the **Course Specification** document

... the detailed content is referred to as the **Mandatory Content**

i.e. the stuff they need to know ! ... see p29 onwards

Assignment information can also be found on the SQA website

... although this session there is no requirement to do this

Key Resources ... issued by the class teacher

Each Topic has the resources listed below:

1. **Learning Outcome Checklist** - a more pupil friendly version of the SQA Course Specification, **Mandatory Content**
2. **Teacher / class notes** - 'live' notes plus hand-out notes covering all the course content
3. comprehensive **Summary Notes** and **HW booklets**
4. **SCHOLAR Notes & check-tests**
5. **Topic Tests** - based on SQA Past-Paper questions, to support consolidation of knowledge and progress
6. **Textbook** that covers the full course

All the resources are available in paper format as well as in digital format in the class Team, available via the i-pad

Additional Resources ... for support @ home

SCHOLAR

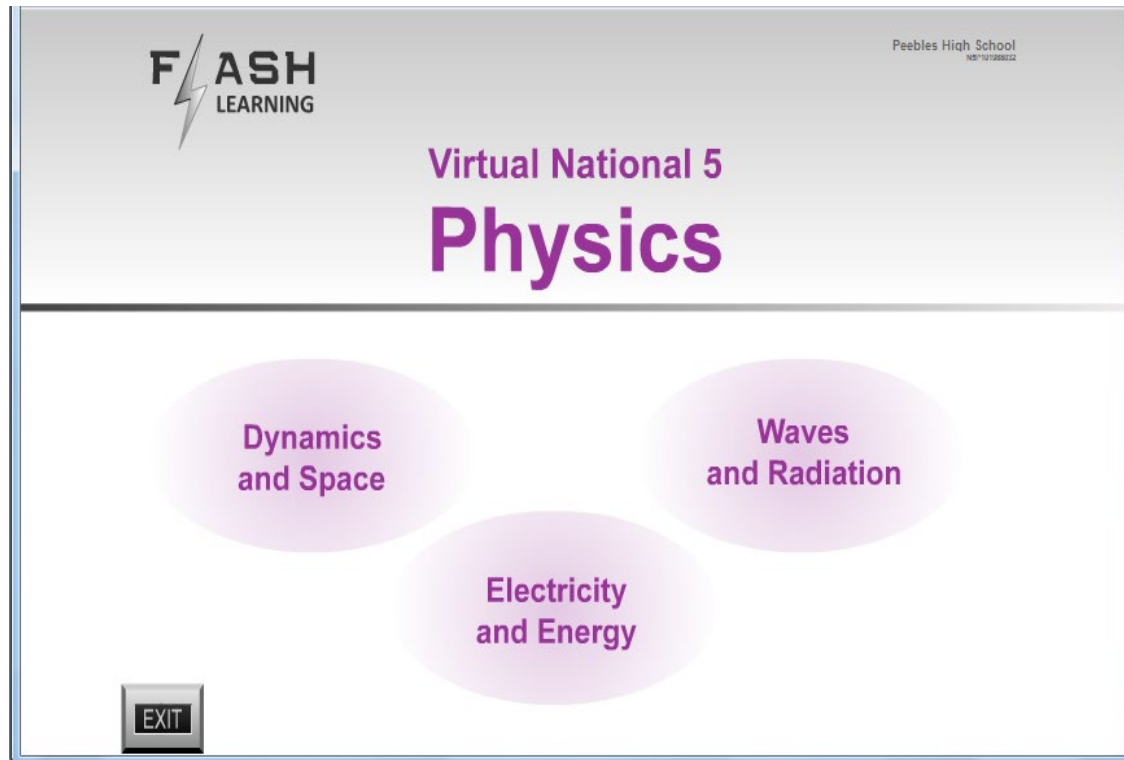
The logo for SCHOLAR features the word "SCHOLAR" in a blue, serif font. Below the text is a horizontal bar composed of several colored segments: red, blue, green, yellow, and orange.

Pupils have access to this via their **Glow Login** details. This excellent resource is full of detailed notes, activities, simulations, practice questions and tests for the whole Course ... *although some sections may still be being added for N5*

This video is a helpful user guide for N5 pupils (and parents / carers)

[Scholar User Guide - Pupils](#)

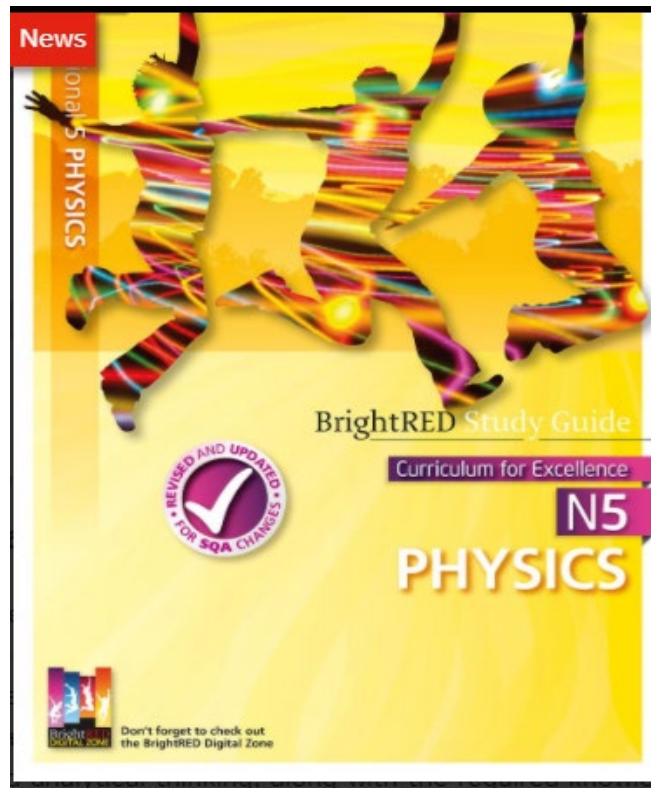
Additional Resources ... for support @ home



Every pupil has access to this fantastic digital resource at school, which has excellent learning notes, animations, worked examples, interactive summary sections that cover the full content of the Course.

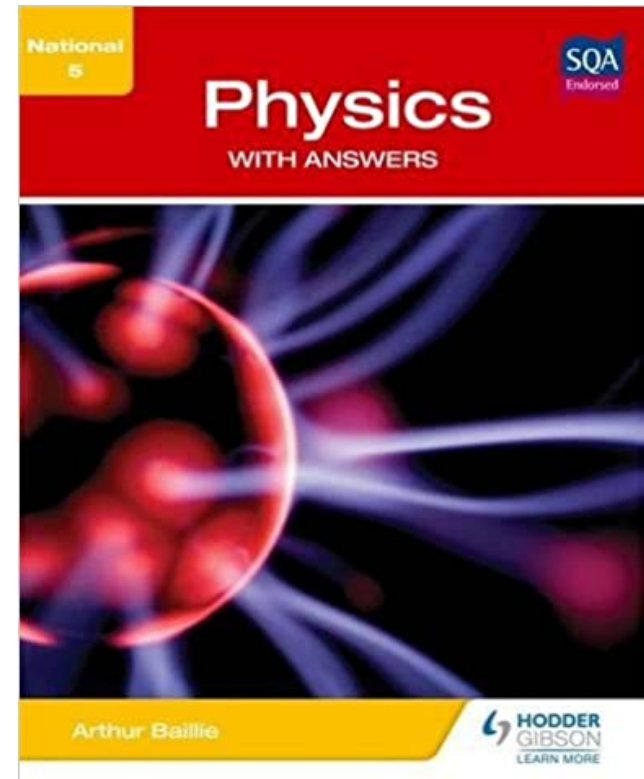
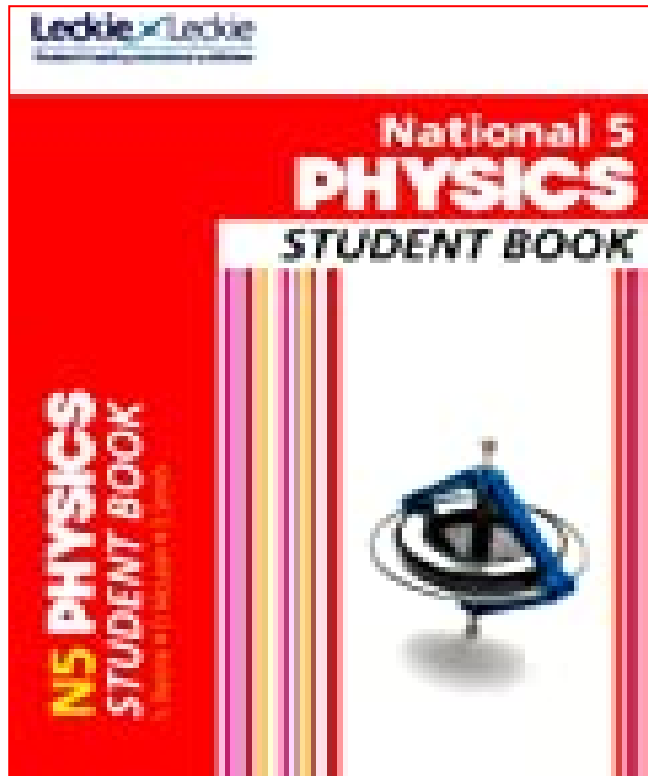
They are encouraged to take a copy for use at home.

Additional Resources ... for support @ home



Every pupil has access to a copy of the Bright Red Study Guide for N5 Physics for use throughout the year. This book also has a complimentary website, '**Bright Red Digital Zone**', with activities, videos and quizzes which can be accessed by clicking here [Bright Red Digital](#)

Additional Resources ... for support @ home



Every pupil has access to a copy of a textbook book, which covers the whole Course, in depth.

Additional Resources ... for support @ home



YouTube GB

nuclear decay alpha beta gamma

Radioactivity: Expect the unexpected - Steve Weatherall
662K views · 7 years ago

TED-Ed

View full lesson: <http://ed.ted.com/lessons/radioactivity-expect-the-unexpected-dont-change-into-...>

Subtitles

<https://www.youtube.com/watch?v=TJgc28csgV0>

YouTube GB

newton's 2nd law

Newton's Second Law | Forces & Motion | Physics | FuseSchool
28K views · 8 months ago

FuseSchool - Global Education

In this video, we are going to learn about and practice applying Newton's Second Law in calculating force, mass and ...

https://www.youtube.com/watch?v=0efXaBr_JcU

YouTube GB

kinetic theory of gases

Kinetic Molecular Theory and the Ideal Gas Laws
317K views · 5 years ago

Professor Dave Explains

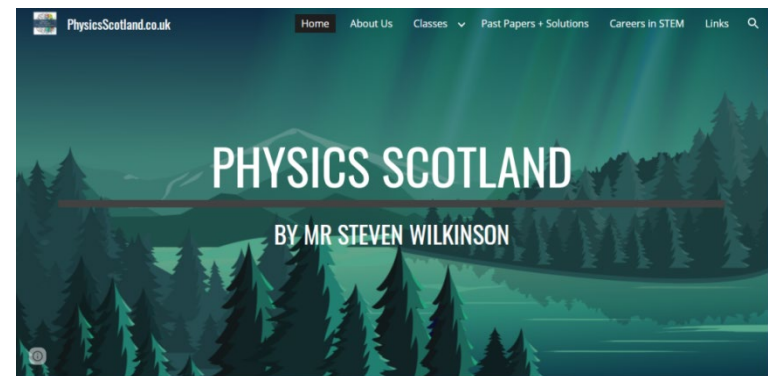
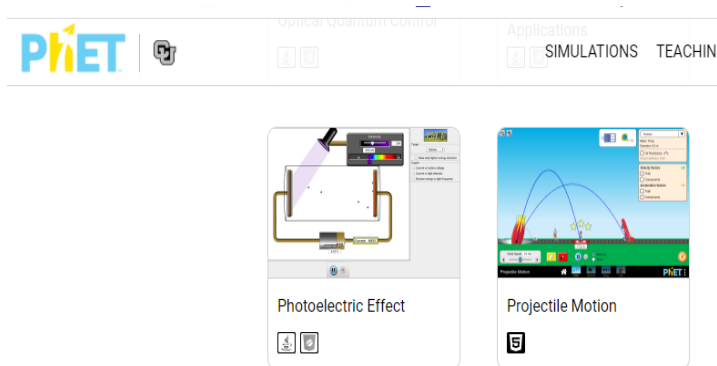
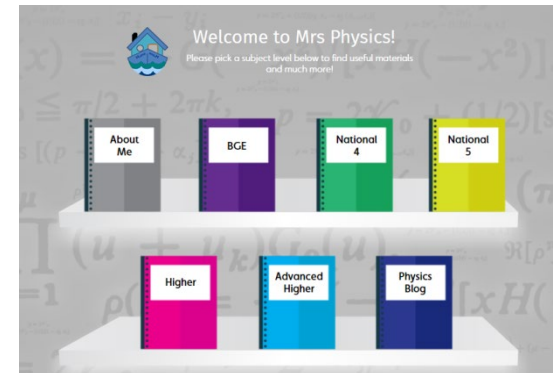
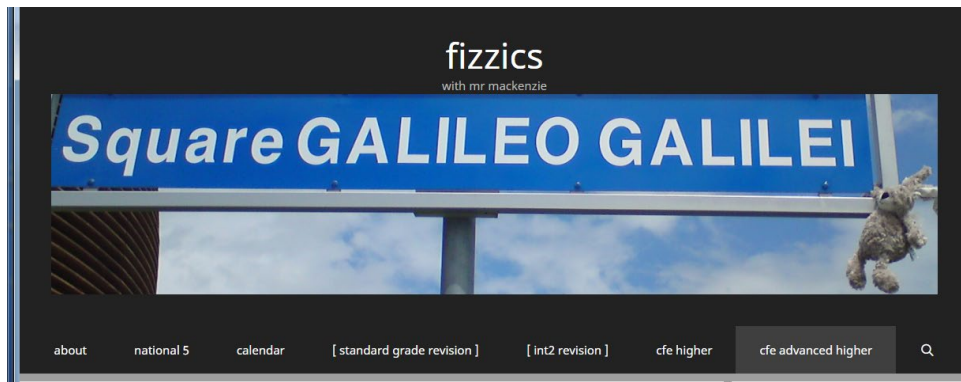
I bet many of you think that the ideal gas law must prohibit passing guidelines, but there are ...

Subtitles

<https://www.youtube.com/watch?v=robEY-idcLU>

There are many, excellent, short videos that help explain some of the trickier parts of the Course, in ways that can really help understanding ... and others are just a good way to learn stuff anyway !

Additional Resources ... for support @ home



Pupils have access to a range of excellent web-sites that have been developed by Physics teachers across Scotland, bringing together a vast collection of resources specifically tailored for N5 Physics. Specific web-site details are available from the Physics teachers, if need be - with a few of the 'best' highlighted here.

Support ... for support @ home

So how can you support your child at home ?

- ❖ If you understand some of the theory / content :
 - ask them questions about the Topic they're working on
 - help them get good use of the resources mentioned
 - check some of their work that they're doing
- ❖ Even if you don't understand the content :
 - ask them questions
 - what's going well
 - Is there anything you need help with ?
 - do you need to speak with your teacher ?
- ❖ **You can always encourage them to :**
 - revise & summarise their notes, regularly
 - do lots of questions, including Past Papers
 - make their notes/work 'meaningful', with enough detail
 - take advantage of **Tutorial Sessions offered in school**
...to get extra support with questions and/or the theory
 - be pro-active in asking for help ... or just for reassurance !