![A picture containing drawing

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**A Guide to**

**Science**

**at**

**Carlinghow Academy**

**2020-2021**

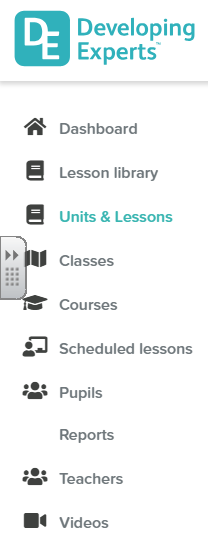
This document outlines the expectations of how we teach Science at Carlinghow Academy. It includes the key strategies we use and what Science looks like in the school.

This guide includes information about the following:

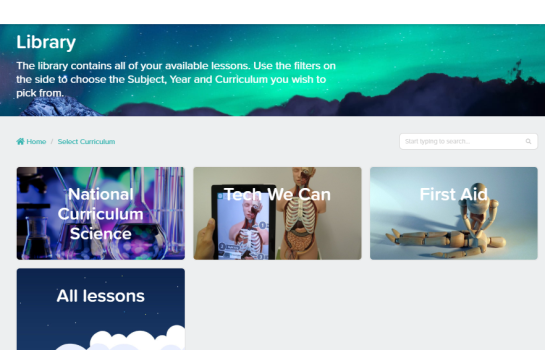
* Using Developing Experts
* Unit Front Covers
* Year Group Overview Sheets
* Vocabulary
* Assessment
* Objectives
* Presentation
* Photographs in practical activities
* Topics in books
* Marking
* Resources
* Displays
* CPD

**Developing Experts**

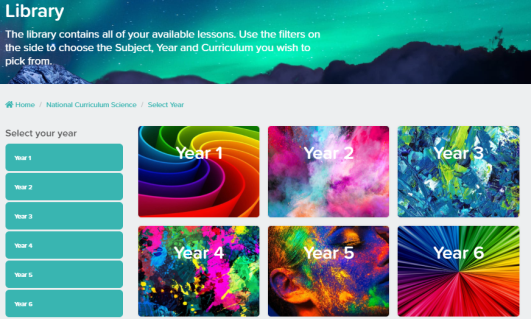
Available <https://developingexperts.com/> you should have an individual login for this. There is also a supply login using the supply@carlinghowacademy.org.uk email. Please contact the science co-ordinator for password details.



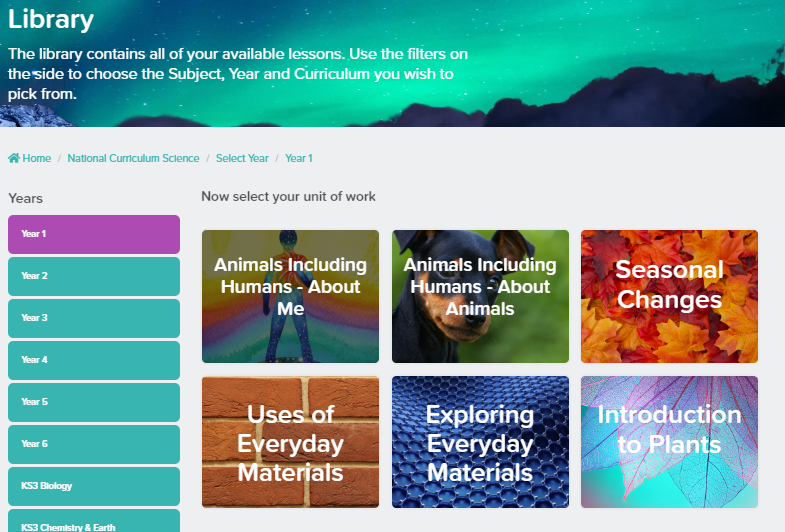
Step 1 – Select Units and courses



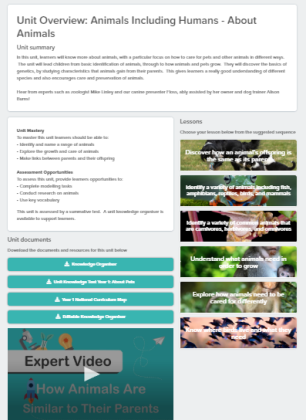
Step 1 – Select National Curriculum Science



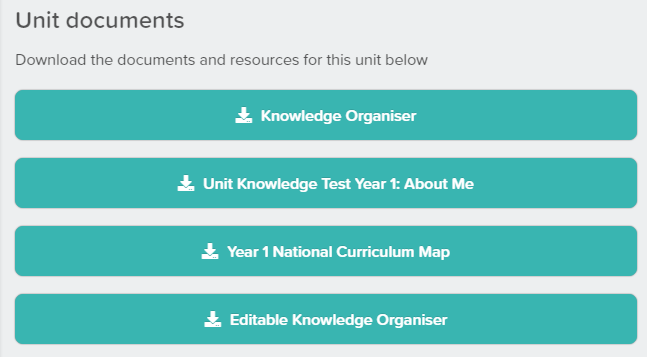
Step 3 – Select your year group



Step 3 – Select your topic



Step 4 – This will give you an overview of the topic and the lessons in it. Please be sure to look at the Curriculum overview for your year group as some start from the top and others from the bottom



In the unit overview you will find a Test about the topic and a word mat which is call the knowledge organiser. Most of the vocabulary used in the topics will be the same but there may be some additional vocabulary on the Year group’s overviews, however you can use the edit the mat if you wish. These can also be found on the server: Curriculum Folders 2020-2021 – Science – Developing Experts Curriculum Maps. Here you can

then just pick the year group and topic you require.

Children using Developing Experts at Home

All pupils from Reception to year 6 have a unique login to developing experts which can be used in school and at home. This allows children to see the lessons and have access to the quizzes by using their own dashboard. This maybe be helpful to reinforce the lesson you have done at school and allow the children time to do the quizzes that they may not have time to do in school.

To provide the children with their login codes, please click on **Classes,**then select the class. Choose the **Pupils**tab and from there, you can **Print class letters,**which have instructions for pupils of how to log in.

To add lessons to their dashboard, visit the **Courses**tab. Click **Build a course** and then filter the lessons by Year group to show lessons for that age group. You can select entire units by clicking on the unit banner or select individual lessons by clicking on the lesson tile. Once you have selected your chosen lessons, click **Organise units.**From here, you can drag and drop the units into whichever order you choose and click **Organise lessons**to do the same with the lessons. Click **Finalise course.**

Give your course a name. Start date: If you would like the lessons to be released one per week into the pupil dashboard, give you course today's start date and one new lesson per week, in the order that you set, will appear. If you wish for all the lessons to be accessed at once, choose a date a long time in the past and all the lessons you have selected will then appear.

**Classes -**you must assign the course to your class otherwise the lessons will not appear in their area. Then you can select the day you teach science and click **Create course.**You are still able to edit your course once it has been created by clicking on the **Courses**tab again.

**Explorify**

**https://explorify.wellcome.ac.uk/en/activities**

This is a free online resource that can also be used to enhance science teaching it has games where you can view images close up and try to guess what it is or the odd one out. These are related to the National Curriculum topics and good for starters or quick games during the day.

**Front Covers**

Front covers for each of the topics should be designed so that there is consistency throughout the school. These front covers should include the title of the unit that is being taught and outline of what the children will be learning during the unit. An example front cover can be found in the science folder on the staff server.

The sequence of lessons is the one that Developing Experts recommends however if you feel that the sequence would be better in a different order then just switch the boxes around.

**Year Group Overview Sheets**

To support planning and be able to see a clear curriculum map of what is being taught, each year group has a curriculum overview sheet. These can also be found on the server.

Please display a copy of this in your classroom in case your class is being covered by someone else.

**Vocabulary**

There are many scientific words that children may come across in a unit, however to allow the children to learn key words there is a specific list of words that children should learn in the topic, these are on both the class overviews and science programme of study.

A school class dictionary has been developed and 2 of these will be printed for each class. These should be made accessible near your science display in your classroom so that the children can access them in every science lesson when needed.

**Assessment**

**Pre/Post Assessments**

At the beginning of a topic the children should be guided to remember what they have previously learned about the topic by looking what they have already learnt on the subject. There are assessment tests on Developing Experts and some teachers may wish to use these for a pre/post assessment.

**Termly Assessments**

At the end of each term the teacher will use their knowledge and assessments made during the teaching of science. However as science changes each half term it may be that you wish to continue to do this half termly so that you have the information fresh in your head.

**Using Target Tracker**

When assessing children on Target Tracker, assess the units you have taught within that half term. Please ensure you look through children’s books to find the evidence of children achieving each objective so that assessments are accurate. If you use the test as a pre and/ or a post assessments this could also be used to inform your judgement.

Target tracker can be used in a range of ways to support the effective teaching of science.

**Statement Overview** – This outlines the objectives to be taught in each unit. It shows whether each individual is working towards, has achieved or is working at greater depth for each objective within the unit.

How to access Statement Overview

Steps reports > statements > statement overview > subjects > show names

**Gap Analysis** – This shows the amount of children who are working towards, have achieved or are working at greater depth for each objective within a unit. This supports the teacher in understanding which objectives still need to be covered when the unit is revisited.

How to access Gap Analysis

Steps reports > statements > gap analysis > subjects > I can statements

**Objectives**

Please ensure that all lessons have an objective at the top of the children’s work and the children have an opportunity to be able to self-assess this. If the children write the objective then they still need to use green, yellow or red to mark on how they felt about the work.

**Presentation**

Children should be taught to work there highest standard of presentation in their books as with all other subjects.

**Topics**

Please aim to keep all topic work together and not separate it with random pieces of other work that you may be catching up on. This could be added to your previous unit or done at the back of the book with a small note added to the topic that it is for.

**Cross-Curricular Work**

There are many links that science can have with different subjects, these links should be recognised and pointed out to the children. If you are doing science work in other subjects that relates to your science topic please do the work in your science book and make a note in the other subjects book – See science book (date).

English – Writing reports, letters etc, science reading comprehensions

Maths – Data handling, Measuring

Computing – processing and analysing data, use of special equipment like data loggers etc

**Photographs**

Were lessons activities are practical or outside please add photographs to the children’s books so that the activities are recorded.

**Marking**

This should be done as per the school marking policy. Please remember that when doing green comments, think pinks and next steps they should be science related. When writing green comments please be specific about what element of the pupils work is good.

**Think Pinks/ Next Steps**

**Should be**

* Be related to the work that they have been doing.
* Move children on to their next step of learning.
* Challenge the children further and allow them to question more.
* Use the knowledge they have acquired in the lesson to make further predictions.
* Develop their understanding of the meaning of science vocabulary.
* Address misconceptions.
* Ask them to improve a diagram or the presentation of data. E.g. add labels, ask them how the data could be seen in a clearer way.
* Allow them to think about other variables that they could change in an experiment.
* Challenge them to think of another situation they could apply that knowledge to.

**Should Not**

* Be more of the same.
* Move them on too quickly.
* Give them the answer.
* Be too basic.
* Tell children to do corrections.
* Just be about handwriting and sentence structure (unless you are asking them to check the spelling of a scientific word using dictionary or working walls.)
* Tell children to complete think pinks.
* Have spelling mistakes.

**Science Resources**

Science resources are stored in the storage cupboard between across from the staff toilets. There are labelled resources in boxes to the left hand side of the cupboard.

**If you could only have them in your class when you are using them this would be helpful.**

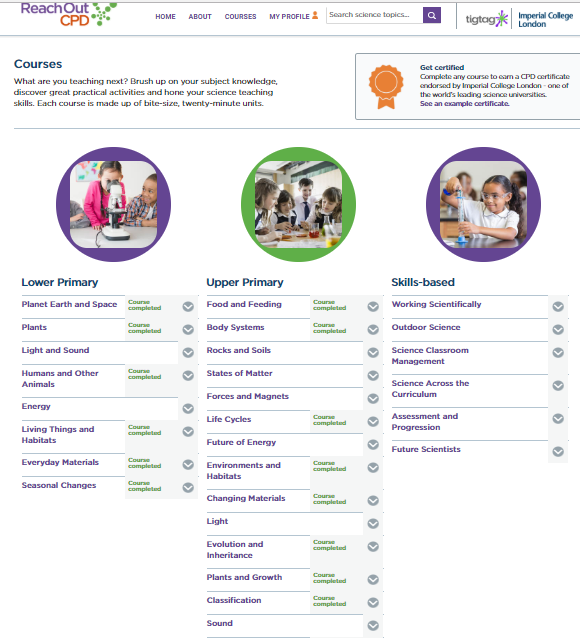
Please check Developing Experts prior the half term to see if there are any further resources that you may need and let the **science co-ordinator know so that they can be purchased.**

If you feel that you know of a better experiment/ activity that you can do that is not on Developing Experts as long as it is related to the lesson that you are teaching from Developing Experts then it is fine to do change activities. However, if you still need resources then please let the Science Co-ordinator know.

**Displays**

Classroom displays should be around your current topic and be used as a working wall to show the title of the unit, previous learning, key vocabulary, science strand that you are working, working scientifically information and display the children’s work. In line with other subjects it would be good to have table top resources for the children to be able to explore and use relating to the topic including some information books.

**CPD**



Staff are advised to ensure that they have a good understanding of the science topic that they are teaching.

Developing Experts

Developing Experts has CPD on their lesson plans and website.

Out Reach CPD

This is an excellent free online resource and takes you through topics in different key stages.

* <https://www.reachoutcpd.com/>
* Takes you through each unit has 4 sections per unit including science needed and suggests misconceptions that the children may have.
* Gives you a certificate at the end
* Provides links and resources that can be used in lessons

Stem Learning

<https://www.stem.org.uk>

This is a free resource that offers CPD, lesson resources and ideas for all STEM subjects. It will also keep you up to date with the latest technologies and news.

