

# Welcome to the Science Department

At Priory, every student in the school completes their weekly Science homework on **Seneca Learning**. To help you get used to this, the science department would like you to make a start on this over the summer holidays.

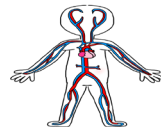
The next couple of pages explain all about this.

If you don't have access to a device to get online, then you can work through the activities on pages 4 and 5.

Or you can do both!

# Science Summer task:

## Seneca Learning



Welcome to the Science Department

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Firstly go to [www.senecalearning.com](http://www.senecalearning.com)

Then click the button that says sign up, then continue by pressing sign up with email.

For now, we would like you to sign up using your own personal email address or your parents/guardians email address. (**In September, once you have your Priory email address you will make a new account with your Science teacher with your Priory email**). Please make sure your password is straightforward and memorable, you will need it every time you log in.

When signing up, fill in your details, select I'm a Student and enter Penwortham Priory – Year 7.

Your parent/guardian can also enter their own email address to get updated on the assignment set.

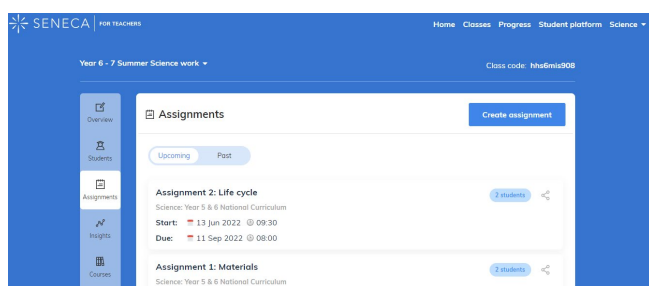
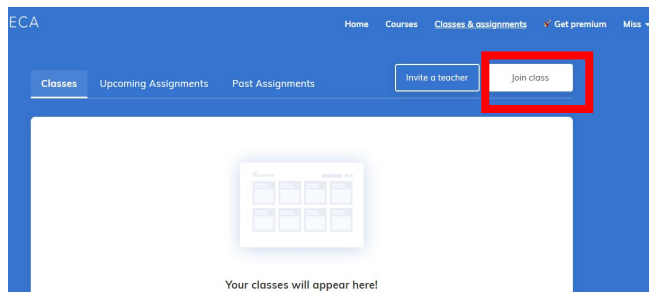
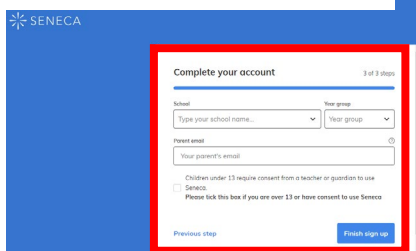
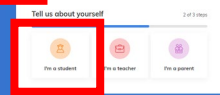
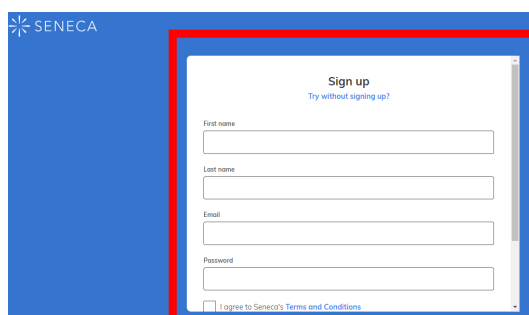
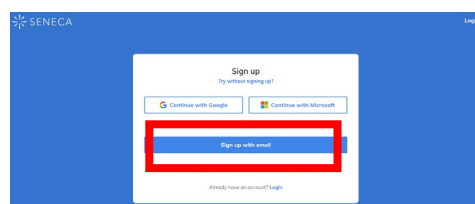
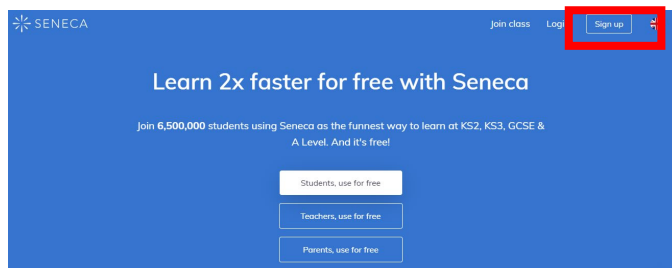
Once you are signed up, click on 'Classes & Assignments' and then 'Join Class'.

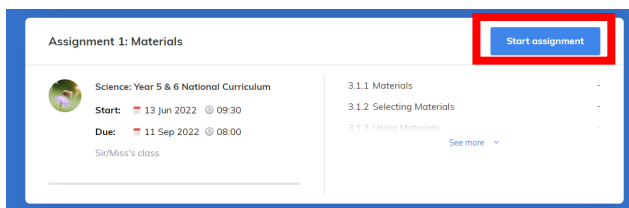
Enter the class code: **bixiy8z2xt**

**Or follow the invite link:**

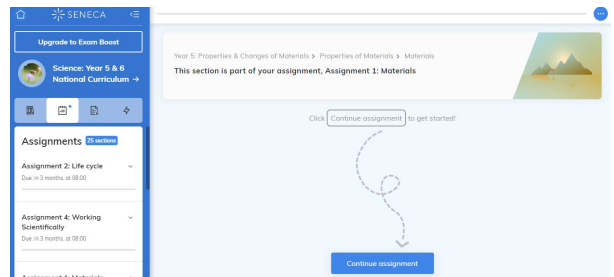
<https://app.senecalearning.com/dashboard/join-class/bixiy8z2xt>

Once you have joined this class you will see that I have set 4 assignments to be completed over the summer. These assignments will help you recap some of the topics you covered in primary school and get you ready to build on this knowledge in Year 7.





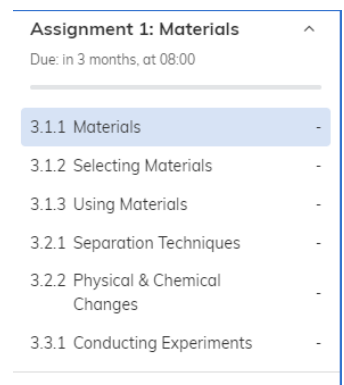
The first assignment is on Materials, a topic you cover in years 5 and 6. Click Start Assignment.



You will now need to read through the information and complete the tasks as they come, you can do this at your own pace.

Work through all the quizzes and you will see a blue line moving across the page, once the line is completely blue you have completed the assignment.

You will be able to see your scores as a percentage. If you find a topic difficult, you can always go back and re attempt the quizzes and improve your score.



There will be prizes to be won in September for those students who have put in lots of effort to completed these quizzes.

**Thank you**

**Mrs Amanda Potter**  
Assistant Leader of Science (KS3)  
[a.potter@priory.lancs.sch.uk](mailto:a.potter@priory.lancs.sch.uk)



## Competition time



If you are feeling creative over the summer, you can enter our competition by making a scientific model or presentation on a topic of your choice. These will be displayed in our department.

In previous years students have made models of cells, here are just some example...

- Research the topic you would like to focus on.
- Make a model or create a presentation.
- Make an information card to go with your model to explain the topic.

Possible topics:

- The particle model: Solids, Liquids and Gases
- Cells: Animal and plant cells
- Space: Our solar system
- The Periodic Table
- The Structure of the Earth



# Get ready for Biology



## Healthy eating

Find three different cereal or chocolate bars . Look for the nutritional information on the wrappers. Fill in the table below with the nutritional information.

Name of bar	Carbohydrates (per 100g)	Fats (per 100g)	Protein (per 100g)	Calories

## The human heart

Answer these questions using what you know about the human heart.

Where is the heart found in the body? \_\_\_\_\_

What does the heart do? \_\_\_\_\_

Your pulse measures how many times your heart beats in one minute. Your pulse goes up when you exercise.

- Record your pulse when you are resting and fill in the table.
- Now exercise for two minutes e.g. jog on the spot or star jumps.
- Measure your pulse again and fill in the table.

Resting pulse rate (bpm)	Pulse after exercise (bpm)

What is the effect of exercise on your pulse rate? Use your results table to help you.

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# Get ready for Chemistry



## Sugar or salt?

In this activity you will plan and do an investigation to answer this question

Can you dissolve more sugar, or more salt, in a glass of water?

Complete the table.

Variable	Will I change it or measure it or keep it the same?
Substance (sugar or salt)	
Amount that dissolves	
Volume of water	
Temperature of water.	

Write down what you will do (method).

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Results:

Substance	
Sugar	
Salt	

What I found out

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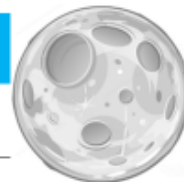


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# Get ready for Physics



## The Sun

Check the Sun's position several times in one day and write the changes.

Warning: Never look directly at the Sun!

Time	Height in the sky	Position

## The Moon

Watch the Moon every night for a week. Write down what it looks like each day. Think about its shape and its brightness.

Day	How the Moon looks
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

## Corn Flour Slime

Try this experiment at home  
Warning – it can get messy!

### Equipment:

Cornflour

Bowl

Teaspoon

Water



### Instructions:

1. Add 4 tablespoons of corn flour in the bowl.
2. Pour in water a small amount at a time until the corn flour resembles a very thick liquid.

### Top Tips

Try adding food colouring to create different coloured slime.

### Questions:

- Try stirring the corn flour slowly and then quickly. Is it a liquid or a solid? Describe your results.

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- Put some of the mixture in your hands and try to roll it into a ball? What happens?

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- What happens when you stop rolling it?

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- You have made Non-Newtonian fluid. Can you find out what this term means?

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## All about you!

What do you enjoy learning about in science?

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What is your favourite science experiment?

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What are you looking forward to doing in science at Priory?

