



**St. John Fisher**  
CATHOLIC COMPREHENSIVE SCHOOL

# Independent Learning

Year 10

Term 5



# Instructions for how to use your independent learning

After school, every day, you should independently research and learn **TWO** subjects from your independent learning. Your class teacher may set you specific tasks. The timetable below gives you an example of how you could structure your time to help you focus each night. It doesn't matter if you don't have that particular subject on that day, just follow the timetable for your home learning. You should spend **half an hour** on each subject.

## EXAMPLE OF HOME TIMETABLE FOR STRUCTURING SUBJECTS & YOUR TIME MANAGEMENT

**Monday:** English and Geography

**Tuesday:** Science and Art / DT / Food

**Wednesday:** Maths and History

**Thursday:** RE and Computer Science

**Friday:** MFL and Music / Drama

### Reading at home

There is also an expectation that you should read a book of your choice for 30 minutes every day.

## Be prepared for the class quiz/

### Class or group discussion

- Each week your class teacher will set you a task from your independent learning. It may include reading text, watching a video or exploring a website.
- Take detailed notes on key points, concepts and other important details.
- Keep a track of the research tasks and make a checklist to ensure you cover all required aspects of the topic.
- Seek help from your teacher if you find the task challenging and collaborate with classmates for group study sessions.

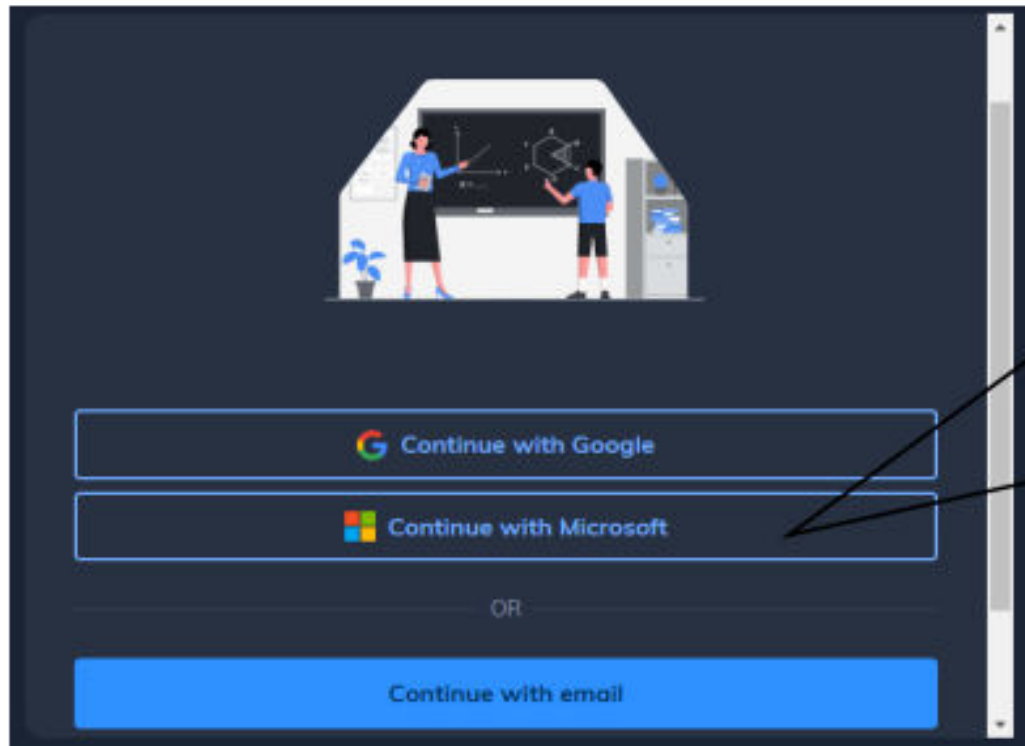
## How to research and learn independently:

- Carefully read the assignment instruction and identify key questions or topics that you need to research.
- Take notes – write down important points, quotes or data.
- Ask someone to test you and ask you questions about the topic
- Create mind maps or flashcards on the topic
- Try writing out the key words or vocabulary into new sentences
- Create a mnemonic
- Draw a diagram of the process
- Read further around the subject



## How to access Seneca Learning

Go to the website: [www.senecalearning.com](http://www.senecalearning.com) and click Login



Click “Continue with Microsoft”  
Use your school email address that ends with @student.stjohnfisher.school  
The password is the same as the password you use to access the school computers and Teams

You will find the work set for your class in “Assignments”

# Mathematics Year 10 (Foundation)

## Week 1:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: 3D solids

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 4:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Accurate drawing and construction

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 2:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Plans and elevations

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 5:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Loci and regions and bearings

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 3:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Scale drawing and maps

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

Key vocabulary: Solids, Plan, elevations, projections, scale drawings, maps, accurate drawing, construction, Loci, Regions, Bearings

# Mathematics Year 10 (Higher)

## Week 1:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Accuracy

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 4:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Cosine rule and 2D, 3D trigonometric problems

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 2:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Graphs of sine, cosine and tangent function

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 5:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Transforming trigonometric graphs

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

## Week 3:

### HOMEWORK

Log into Sparx Maths using the provided log in detail.

Complete the task set on: Calculating area and the sine rule

Having log in issues?

Email: e.nyantakyi@stjohnfisher.school

Key vocabulary: Sine, Cosine, Tangent, Sine rule, Cosine rule, trigonometric problems, Transforming

# ENGLISH YEAR 10

## **Week 1:**

**Complete the “Mastering AQA English Language Paper 1” assignment on Seneca Learning.**

**This will be marked automatically by Seneca Learning.**

## **Week 4:**

**Complete the “Understanding An Inspector Calls” assignment on Seneca Learning.**

**This will be marked automatically by Seneca Learning.**

## **Week 2:**

**Complete the “Mastering AQA GCSE English Language Paper 2” assignment on Seneca Learning.**

**This will be marked automatically by Seneca Learning.**

## **Week 5:**

**Complete the “Exploring Themes in A Christmas Carol” assignment on Seneca Learning.**

**This will be marked automatically by Seneca Learning.**

## **Week 3:**

**Complete the “Key Quote from Macbeth” assignment on Seneca Learning.**

**This will be marked automatically by Seneca Learning.**

## **Key Vocabulary:**

**Analysis / Summary / Contrast / Evaluation / Persuasion / Rhetoric**

# Science

**Week 1:**

**Complete Seneca Learning Assignment.**

**This will be marked by Seneca.**

**Week 4:**

**Complete Seneca Learning Assignment.**

**This will be marked by Seneca.**

**Week 2:**

**Complete Seneca Learning Assignment.**

**This will be marked by Seneca.**

**Week 5:**

**Complete Seneca Learning Assignment.**

**This will be marked by Seneca.**

**Week 3:**

**Complete Seneca Learning Assignment.**

**This will be marked by Seneca.**

**Key Vocabulary: Force – Hooke's Law – Elastic – Momentum – Vector – Scalar – Newton's Law – acceleration – resultant forces – deformation – mass – weight – gravitational field strength – stopping distance – thinking distance – braking distance**

# Religious Education

**Week 1: Answer the following questions below.**

1. What is meant by the word, 'revelation'?
2. Why do some people believe that scripture reveals God?
3. Organize the following types of books in the Bible into the appropriate part of the Bible. Old Testament OR New Testament
  - Law, History, Gospel, Writings, Prophets, Letters, Revelation

**Week 2: Answer the following questions below.**

1. What are the three sources of authority within the Catholic church | ?
2. What is meant by the term, 'Apostolic succession'?
3. Create a detailed mind map about the different types of Magisterium. (Try to make this visual)

**Week 3: Watch the video below on the Second Vatican council.**

[Year 11 Second Vatican Council Summary GCSE \(Edexcel RS Spec A\)](#)

**Create 8 short answer questions on the Second Vatican council**

**Week 4: Answer the following questions below.**

1. What is the Nicene creed?
2. What is the Greek word for 'church'?
3. Who do Catholics believe is the source of all holiness?
4. How does the Church make people holy?

**Week 5: Answer the following questions below.**

Mary is sometimes known as a 'model of the Church'. What does this mean?

2. What other names are attributed to Mary?
3. Why is Mary believed to be the greatest example of discipleship?
4. How did Mary demonstrate her faith in God?

**Key vocabulary: Magisterium, Second Vatican council, Nicene creed, Literal, Metaphorical, revelation, discipleship**

# Citizenship – Year 10 Term 5

## **Week 1: How are laws made?**

- 1. Research how laws are made. What are the 7 stages?**
- 2. Choose a new law that you would like to make. Why have you chosen it? Who might disagree and why.**

## **Week 2: Devolution**

- 1. What is devolution?**
- 2. Make lists of the powers each devolved power has.**

## **Week 3: 12m question practice:**

**'The government has been elected by everyone so must not be challenged.'**

## **Week 4: 15m question practice:**

**'If the NHS wants more money, it should get it'**

**Week 5: 'Should we get rid of First Past the Post?' Create a list of reasons for and against.**

**Key Vocabulary: Laws Bills Green Paper White Paper Devolution Parliament Budget**

# History

**Week 1:**

**Booklet issued: British America**

**Make revision flash cards for two pages of the booklet each week.**

**Bring these to class for your teacher to check.**

**Week 4:**

**Booklet issued: British America**

**Make revision flash cards for two pages of the booklet each week.**

**Bring these to class for your teacher to check.**

**Week 2:**

**Booklet issued: British America**

**Make revision flash cards for two pages of the booklet each week.**

**Bring these to class for your teacher to check.**

**Week 5:**

**Booklet issued: British America**

**Make revision flash cards for two pages of the booklet each week.**

**Bring these to class for your teacher to check.**

**Booklet issued: British America**

**Make revision flash cards for two pages of the booklet each week.**

**Bring these to class for your teacher to check.**

Booklet issued: British America

Make revision flash cards for two pages of the booklet each week.

Bring these to class for your teacher to check.

**Key vocabulary: Colony, Empire, Settlement, Trade, Piracy, Customs, Taxation, Enslavement, Rebellion, Racism, Punishment, Militia**

# Geography

## Week 1:

**Complete your exam-based questions.**

**Spend time reading the information and then set a time limit to answer the questions. Once finished, use the information side to add more to your responses in green or purple pen.**

## Week 4:

**Complete your exam-based questions.**

**Spend time reading the information and then set a time limit to answer the questions. Once finished, use the information side to add more to your responses in green or purple pen.**

## Week 2:

**Complete your exam-based questions.**

**Spend time reading the information and then set a time limit to answer the questions. Once finished, use the information side to add more to your responses in green or purple pen.**

## Week 5:

**Complete your exam-based questions.**

**Spend time reading the information and then set a time limit to answer the questions. Once finished, use the information side to add more to your responses in green or purple pen.**

## Week 3:

**Complete your exam-based questions.**

**Spend time reading the information and then set a time limit to answer the questions. Once finished, use the information side to add more to your responses in green or purple pen.**

**Key vocabulary: Urbanisation, rural-urban migration, UK city, Gentrification, Urban change.**

# T5 French Year 10

**Week 1:**

**Learn 20 words for a Vocab Test (Teams)**

**Week 5:**

**Speaking Mock Revision**

**Week 2:**

**Speaking Mock Prep**

**Week 6:**

**Learn 20 words for a Vocab Test (Teams)**

**Week 3**

**Speaking Mock Prep**

**Week 4:**

**Speaking Mock Prep**

**Key Vocabulary:** *Mes études, mes vacances, mes loisirs, ma famille, mes passions et mon avenir*

# Year 10 Latin Homework

## **Week 1:**

Write out the 6 cases of Latin with Examples.

## **Week 2:**

Write out the 5 tenses of Latin, with their endings.

Give examples of verbs in each tense.

## **Week 3 Past**

**Paper 2021 – Component 1**

## **Week 4: Perfect tense**

Revision for T5 Assessment

## **Week 5:**

**Roman Life – Life of women in Roman society.**

**Key words**

# Sociology – 12 mark question practice

**Week 1: 'Discuss how far sociologists agree that the main role of education is to prepare people to work for Capitalism'**

**Week 4: 'Discuss how far sociologists agree that in school factors are the main reason for working class students not achieving at school'**

**Week 2: 'Discuss how far sociologists agree that the existence of private and public schools has created a 2 tier education system and that they should be abolished'**

**Week 5: 'Discuss how far sociologists agree that social class is the most significant factor affecting educational attainment'**

**Week 3: 'Discuss how far sociologists agree that marketisation is beneficial to our education system'**

**Key Vocabulary: Marxism, Capitalism, Functionalism, Inequality, In-school, out-of-school, class, gender, ethnicity, marketisation**

# Computing Y10

## Week 1:

Write an algorithm which: - asks the user to input 2 numbers - outputs the larger of the two numbers along with a suitable message [5 marks]

## Week 4:

A dog that is 5 years old is equivalent to a 42-year-old human. You need to write a program that converts the age of a dog to the equivalent age of a human.

Write an algorithm which:

- Asks for the age of the dog in years
- If the age is 2 or less, the human equivalent is 12 times the age
- If the age is more than 2, the human equivalent is 24 for the first 2 years, plus 6 for every additional year. [5 marks]

## Week 2: If Monday = 0, Tuesday = 1 etc...

write an algorithm which: - Asks the user to enter a number, - Outputs the day that the number represents, - Validates the number so that an error message displays if the number is not a valid weekday number.

[5 marks]

## Week 5:

Consider the array numbers = [2, 5, 3, 6, 2, 3, 6, 4] where the value of numbers[2] is 3.

Write an algorithm which: - Adds up the numbers in the array, - Displays the result.

To get full marks a loop should be used in your algorithm.

[5 marks]

**Week 3:** A program has been written to obtain 3 random virtual dice rolls:

```
dice_roll_1 = random(1,6)
```

```
dice_roll_2 = random(1,6)
```

```
dice_roll_3 = random(1,6)
```

Rewrite this algorithm so that it makes use of iteration. [4 marks]

## Week 6:

**Purple pen lesson**

**Key vocabulary: Programming, iteration, coding, efficient, variables, naming conventions**

# ART & DESIGN YEAR 10 TERM 5

## **Week 1:**

**Create an illustrated mind-map on the theme Abstraction**

## **Week 4:**

**Research the work of artist Rex Ray. Present images and information on a PowerPoint slide.**

## **Week 2:**

**Gather abstract images and create a mood board on a PowerPoint slide**

## **Week 5:**

**Using scrap paper and magazine pages, create a collage inspired by the work of Rex Ray.**

## **Week 3:**

**Take close-up photographs of a range of objects paying particular attention to texture and pattern.**

**Key Vocabulary: Abstract, close up, texture, pattern, play of light, geometric, rhythm, colour and form, architectural pattern, macro photography, viewpoint,**

# Drama – Year Ten Term 5

## Week 1: Character Profile – Mrs Lyons

Write a profile of the character Mrs Lyons from *Blood Brothers*. Put down as much information that we know about her as possible, and as much information as we can infer about her.

## Week 4: Character Profile – Mr Lyons

Write a profile of the character Mr Lyons from *Blood Brothers*. Put down as much information that we know about him as possible, and as much information as we can infer about him.

## Week 2: Character Profile – Mrs Johnson

Write a profile of the character Mrs Johnson from *Blood Brothers*. Put down as much information that we know about her as possible, and as much information as we can infer about her.

## Week 5: Character Profile – Narrator

Write a profile of the character of the Narrator from *Blood Brothers*. Put down as much information that we know about them as possible, and as much information as we can infer about them.

## Week 3: Character Profile – Sammy

Write a profile of the character Sammy from *Blood Brothers*. Put down as much information that we know about him as possible, and as much information as we can infer about him.

Key vocabulary: Epic theatre, Political Theatre, Gestus, Exaggeration, Placards, Freeze Frames, Tableaux

# Business T5

## Week 1: Understand Business Revenue, costs, and profits

- What is the difference between these business terms
- What do these terms represent?
- How do businesses use these factors to determine success?
- Write a brief essay on the importance of revenue, cost and profit to a business of your choice

## Week 2: Understanding core concepts of business finance. What is:

- Revenue, - Fixed and variable costs, - Total costs, - Profit and loss,
- Interest, - Difference between cash and profit
- Conduct online research into the financial performance of Apple, and Facebook and determine if both companies made profit or loss in 2015 to 2018. Findings will be presented in class.

## Week 3: Financial calculations

### How to calculate:

- Revenue
  - Fixed and variable costs
  - Total costs
  - Profit and Loss
- Complete financial calculation activity in Tutor2U power point slides on Teams

## Week 4: Understanding Cash and Cash-flow

- What is meant by cash and its importance to a business
- What is a cash-flow forecast
- What is a cash-flow statement
- What is the importance of a cash-flow forecast to a business
- Write a 200-word essay on the importance of cash-flow forecast to small business survival and raising finance from a bank. Essay to be submitted via outlook.

## Week 5: Explain what break-even is.

- How do you calculate contribution per unit?
- What is the calculation for the break-even point?
- List the 4 uses for doing a break-even analysis.
- Assess the benefits and limitations of using break-even analysis.

Submit Answers on Teams.

**Key Vocabulary:** Revenue, Costs, Profit, Loss, Fixed cost, Variable cost, Cash flow, Cash flow forecast, Cash-inflow, Cash-outflow, Net-cashflow, Break-even, Contribution Per Unit.

# CoPE Year 10

## **Week 1: Research**

Research an endangered animal or plant of your own choice

Complete the research log, try to find information from the internet and other sources (e.g. a book, or a TV program)

## **Week 2: PowerPoint - introduction and 3 slides with notes**

Design a PowerPoint about your endangered animal or plant, complete an introduction about why you choose this animal or plant. Then complete 3 slides of information about this animal or plant.

Where does it live?

What does it eat/ what climate does it live in?

Why is it endangered?

You should have pictures and titles on the slides and your writing should be in the notes section.

## **Week 3: PowerPoint – second half – next 4 slides with notes**

Continue with your PowerPoint – complete another 4 slides with pictures and information written in the notes section. How can we help 'save' the animal or plant? Are there any of this animal or plant in captivity/nature reserves? How many of the animal or plant are still left on this planet?

## **Week 4: PowerPoint – concluding slide with notes**

Design a final slide which summarizes the information with pictures on the slide and words in the notes section.

## **Week 5: Cue cards – ready for presenting the PowerPoint to the class.**

Prepare Cue cards with bullet points to use for your presentation of the PowerPoint to the class this week.

Bring the cue cards into school.

Extinct, Endangered, climate, exploitation, hunting

# Hospitality and Catering Year 10

## **Week 1: FOOD SPOILAGE**

In one paragraph, describe food spoilage and provide examples of chemical and microbiological food spoilage.

## **Week 2: BACTERIA**

In one paragraph, describe the definition of food bacteria and provide examples.

What are the differences or similarities between bacteria and toxins?

## **Week 3: CAUSES OF FOOD POISONING**

List the causes of food poisoning, at least 5 and provide an example of food for each.

## **Week 4: PATHOGENS FOUND IN FOOD**

List 5 pathogens found in food, including examples of food and ways to prevent them from getting into food.

## **Week 5: FOOD CONTAMINATION**

Provide examples of 5 high-risk foods. Then describe chemical food poisoning, provide examples and ways to prevent it from getting into food.

Describe physical contamination, examples and ways to prevent it from getting into food.

## **Key Vocabulary :**

**CHEMICAL AND MICROBIOLOGICAL FOOD SPOILAGE, FOOD POISONING, BACTERIA, PATHOGENS, HIGH RISK FOOD, TOXINS**

# Music

**Week 1: Develop Numbers Composition. Use Teams to structure your answer**

**Week 4: Work on your performance linked to numbers. Use Teams to structure your answer**

**Week 2: Develop Numbers Composition. Use Teams to structure your answer**

**Week 5: Write the commentary for your performance. Use Teams to structure your answer**

**Week 3: Evaluate Numbers composition. Use Teams to structure your answer**

**Key Vocabulary: Chord sequence melody development bass line structure harmony**

# Physical Education – Year 10 GCSE Homework Tasks

## Week 1: Everlearner task – Watch now & then test yourself

Watch the video on Everlearner about [principles of training](#), ensure to make notes as you go. Following this, test yourself on the topic and achieve a minimum pass score of 60%.

## Week 4: Everlearner task – Watch now & then test yourself

Watch the video on Everlearner about [aerobic and anaerobic training thresholds](#), ensure to make notes as you go. Following this, test yourself on the topic and achieve a minimum pass score of 60%.

## Week 2: Everlearner task – Watch now & then test yourself

Watch the video on Everlearner about [methods of training](#), ensure to make notes as you go. Following this, test yourself on the topic and achieve a minimum pass score of 60%.

## Week 5: Everlearner task – Watch now & then test yourself

Watch the video on Everlearner about [fitness testing](#), ensure to make notes as you go. Following this, test yourself on the topic and achieve a minimum pass score of 60%.

## Week 3: Everlearner task – Watch now & then test yourself

Watch the video on Everlearner about [validity & reliability](#), ensure to make notes as you go. Following this, test yourself on the topic and achieve a minimum pass score of 60%.

## Week 6: Everlearner task – Final test yourself

Start the “final test” section and achieve a minimum score of 65%.

Good luck!

## Key vocabulary:

Fartlek, interval, continuous, circuit, weight, plyometric, aerobic, anaerobic, sedentary, repair, recovery.