

Week beginning – Monday 1st March 2021

Please remember to submit all completed learning to the Remote Learning account of the Academy, the email address is:

- Remote-Learning@twapa.co.uk

KS4 English

Lesson 1

Lesson Objective:

- To identify and understand different types of language used within the extract.

Success Criteria:

- Bronze: I can identify at least three different devices within the extract.
- Silver: I can identify a range of different devices and I am beginning to consider the effect of these.
- Gold: I can confidently identify a range of different devices and can explain why the writer has used these.

This week we will be continuing to focus the effect of language within texts.

In your English Language Reading Skills: Non-Fiction Workbook, read page 56. While you are reading, highlight the words you do not understand. Use the techniques we use in school to help you decode these words:

First, SOUND out words new to you. Use simple phonics to attempt a pronunciation. You might recognize the word when you hear it.

Next, examine the STRUCTURE. Look for familiar word parts.

Then look at the CONTEXT. Guess at the word's meaning from the way it is used in the sentence. You may be able to tell the meaning by the way the passage continues.

Check the DICTIONARY.

Write a summary of the extract or explain to an adult what the extract is about. This is a good way to make sure you understand the text.

Answer the questions on pages 57 - 58 of the English Language Reading Skills: Non-Fiction Workbook. You need to answer all questions in full sentences using correct punctuation. When answering question 4, you need to use PEE paragraphs. Make sure you include a short quotation from the extract.

Lesson 2

Lesson Objective:

- To explore the effect of different language devices on the reader.

Success Criteria:

- Bronze: I can identify at least three different devices within the extract.
- Silver: I can identify a range of different devices and I am beginning to consider the effect of these.
- Gold: I can confidently identify a range of different devices and can explain why the writer has used these and the impact on the reader.

Today we are looking at another extract. Remember to refer to the glossary at the bottom of the page to help with any words and phrases which are unfamiliar.

In your English Language Reading Skills: Non-Fiction Workbook, read page 59. While you are reading, highlight the words you do not understand. Use the techniques we use in school to help you decode these words. Re-tell or summarise the extract to check your understanding.

Answer the questions on pages 60 - 61. You need to use quotes to support your ideas. Try to find supporting evidence from the extract for each question. Remember to write using PEE paragraphs for question 3. Creating a plan will help you to organise your ideas.

Lesson 3 – Blood Brothers

Lesson Objective:

- To explore the theme of identity in Blood Brothers.

Success Criteria:

- Bronze: I can explain events in Act 1.
- Silver: I can clearly explain events in Act 1.
- Gold: I can confidently explain events in Act 1.

This week we are going to review the entire play in sections. In your Blood Brothers Text Guide, read pages 10 - 13. This gives you an overview of Act 1.

Create a timeline of the main events. Include key quotes and any important information about characters and themes.

Lesson 3 – An Inspector Calls

Lesson Objective:

- To explore Act 1 of An Inspector Calls.

Success Criteria:

- Bronze: I can explain events in Act 1.
- Silver: I can clearly explain events in Act 1.
- Gold: I can confidently explain events in Act 1.

This week we are going to review the entire play in sections. In your An Inspector Calls Text Guide, read pages 6 - 8. This gives you an overview of Act 1.

Create a timeline of the main events. Include key quotes and any important information about characters and themes.

Lesson 4 – Blood Brothers

Lesson Objective:

- To explore Act 2 of Blood Brothers.

Success Criteria:

- Bronze: I can explain events in Act 2.
- Silver: I can clearly explain events in Act 2.
- Gold: I can confidently explain events in Act 2.

This week we are going to review the entire play in sections. In your Blood Brothers Text Guide, read pages 14 - 17. This gives you an overview of Act 2.

Add the main events to your timeline. Include key quotes and any important information about characters and themes.

As an extra challenge, you can now complete the practice questions on page 18 of your text guide. Highlight the questions you get wrong and make sure you are familiar with the correct answer.

Lesson 4 – An Inspector Calls

Lesson Objective:

- To explore Act 2 in An Inspector Calls.

Success Criteria:

- Bronze: I can explain events in Act 2.
- Silver: I can clearly explain events in Act 2.
- Gold: I can confidently explain events in Act 2.

This week we are going to review the entire play in sections. In you're an Inspector Calls Text Guide, read pages 9 - 11. This gives you an overview of Act 2.

Add the main events to your timeline. Include key quotes and any important information about characters and themes.

KS4 Maths

Lesson 1 & 2: Sectors and Arcs and Similar Shapes

Learning Objective:

- Understand how to find the area of a sector of a circle and the length of an arc.
- Understand how to find the angle in similar shapes.

Success Criteria:

- You will be able to find the area of a sector of a circle and length of an arc.
- You will understand the difference between congruence and similarity.
- You will be able to find the length of a line on a 2D shape based on a similar shape.

For the first two lessons I would like you to re-visit last week's work. It is very difficult and will need you to go over it to get it into your heads. Going over this once is not enough. Remember, when finding the area of a sector you need to find the area of a circle (π multiplied by the radius squared) and then multiply by the interior angle and divide by 360. Go over the work and re-test yourself. Familiarise yourselves with the formulas and methods.

Complete the work again but do this on a separate piece of paper. Extend your learning with the following:

<https://www.mathsgenie.co.uk/resources/5-sector-area-and-arc-length.pdf>

<https://www.mathsgenie.co.uk/resources/5-similar-shapes.pdf>

If for some reason you cannot remember how to find the area or circumference of a circle re-visit this on pages 63 and 64. You can also try some questions on the following site if you have completed the questions on page 53 in your Workbook.

<https://www.mathsgenie.co.uk/resources/3-circles-area-and-circumference.pdf>

Lesson 3 Angles in Parallel Lines

Learning Objective:

- Understand how to solve an interior angle in a parallel line.

Success Criteria

- You will be able to solve the angle for alternate angles.
- You will be able to solve the angle for corresponding angles.

Read through your Revision Guide on page 89. This details how you can find the size of an angle in parallel lines. Use this information to answer the questions in your Workbook on page 75. Remember that parallel lines will never meet! Remember to find the letter Z for alternate angles and the letter F to help you find corresponding angles.

For more information on this please see the video below. It can be quite confusing so take your time in trying to answer these questions.

<https://www.youtube.com/watch?v=5NfXvBdwKJE>

For additional work please see:

<https://www.mathsgenie.co.uk/resources/4-angles-in-parallel-lines.pdf>

KS4 Biology

Plant Hormones

Last week, we learned about diffusion, osmosis, and active transport. This week, we will be exploring hormones in plants.

Hormones control important processes like germination, flower opening, dropping leaves, phototropism, and geotropism. We use plant hormones in weedkillers, and to make seedless fruit and root cuttings.

Lesson 1 - Plant Hormones

Learning Objective:

- To describe what Auxin is.

All	Know what Auxin is.
Most	Describe how Auxin affects plant growth.
Some	Explain how Auxin make plants grow.

Read page 146 from the Biology Complete Revision and Practice book.

- What is a Hormone?
- What is Auxin?
- Describe how Auxin affects plants.
- Explain why shoots grow towards light.
- Explain why roots grow towards gravity.

Lesson 2 - Investigating Plant Growth

Learning Objective:

- To plan an experiment investigation plant growth.

All	Know that light affects plant growth.
Most	Plan a simple experiment testing the effect of light on plant growth.
Some	Describe the variables within the experiment.

The effect of light intensity on photosynthesis can be investigated in water plants. Use Cabomba or Elodea, which are sold in aquarium shops.

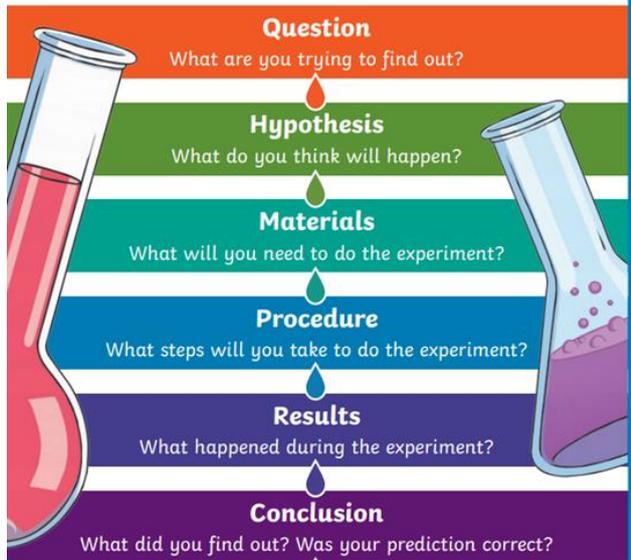
The plants will release bubbles of oxygen – a product of photosynthesis – which can be counted.

A lamp with an LED bulb is set up at different distances from the plant in a beaker of water.

Read page 147 from the Biology Complete Revision and Practice book.

Plan an experiment that will investigate the effect of light on the growth of cress.

The Scientific Method



Question
What are you trying to find out?

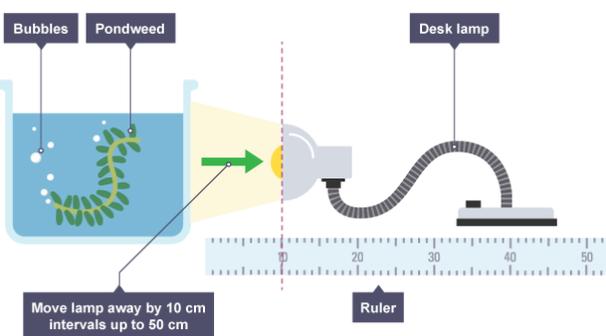
Hypothesis
What do you think will happen?

Materials
What will you need to do the experiment?

Procedure
What steps will you take to do the experiment?

Results
What happened during the experiment?

Conclusion
What did you find out? Was your prediction correct?



Bubbles, Pondweed, Desk lamp, Ruler

Move lamp away by 10 cm intervals up to 50 cm

Lesson 3 - Commercial Uses of Plant Hormones

Learning Objective:

- To understand the uses of plant hormones in agriculture.

All	Know how plant hormones are used in agriculture.
Most	Describe the uses of weedkillers and rooting powder.
Some	Explain why plant hormones are used in agriculture.

There are many types of plant hormones. They are used in agriculture and horticulture to have a specific effect.

Auxins were the first class of plant hormones to be discovered. Their main function is to help plants grow and auxin stimulates plant cells to elongate. The apical meristem of a plant is one of the main places where auxin is produced. The apical meristem is also the location that all other parts of a plant grow from - the stem, leaves, and flowers.

Auxins are one specific group of hormones that are used:

- as weed killers
- as rooting powders

Read page 148 of the Biology Complete Revision and Practice book.

Complete the practice questions on page 149 and 150 of the Biology Complete Revision and Practice book.

Wider Learning

BBC Bitesize has a variety of different videos, tests and games that will test your knowledge. Please watch all the videos on plant hormones.

<https://www.bbc.co.uk/bitesize/guides/zc6cqhv/revision/1>

Game Pins

Plant Hormones
Game PIN: 003852304

Careers
Game PIN: 003422935

