KS3 Remote Learning Core

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

KS3 English

Lesson 1

Lesson Objective:

- To explore the features of a play.

Success Criteria:

- Bronze: I can use identify at least two features of a play.
- Silver: I can identify at least three features of a play.
- Gold: I can confidently identify a range of features of a play.

This week we will be looking at plays. We are going to read a play on our return to school.
In your English The Practice Tests book, read pages 120 - 121. These are the basic features of plays. You will recognise some of these from when we looked at Romeo and Juliet.

Research plays:

- Can you find any you have heard of?
- Have you ever read a play before?
- What did you like/not like about it?

Lesson 2

Lesson Objective:

- To explore characters within a play.

Success Criteria:

- Bronze: I can identify two features of characters within plays.
- Silver: I can identify at least three features of characters within plays.
- Gold: I can confidently identify a range of features of characters within plays.

Today we are going to look at characters within plays.

In your English Revision and Practice book, read pages 122 – 123.

As you read, make some revision notes. Remember, these can be colourful and include pictures!

Research characters from any play you have heard of.

- What body language do they use?
- How do they behave towards other characters?

Lesson 3

Lesson Objective:
To explore the use of staging within plays.

Success Criteria:

- Bronze: I can identify two examples of staging.
- Silver: I can identify three examples of staging and am beginning to explore why these have been used.
- Gold: I can confidently identify a range of examples of staging. I can explain why these have been used.

Today we are going to explore staging.

Read pages 124 – 125 in your Revision Guide. Add to your notes from yesterday as you complete the reading.

Read the script on page 125.

- Can you draw the stage for this section of the play?
- What have you included? Why have you made these choices?

KS3 Maths

Lessons 1 & 2: Angle Rules / Angles in Parallel Lines / Interior and Exterior Angles

Learning Objectives:

- Understand how to find the angle on a straight line.
- Understand how to solve an interior angle in a parallel line.
- Understand how to find the interior and exterior angle of a 2D polygon.

Success Criteria

- You will be able to solve the angle on a straight line.
- You will be able to solve the angle for alternate angles.
- You will be able to solve the angle for corresponding angles.
- You will be able to solve the interior and exterior angle.
- You will be able to find the sum of interior angles.

Firstly, I would like you to check over last weeks work or if you are yet to complete it, finish the work off. I want you to spend some time going over your work, revisiting the formulas and re-testing yourself on the questions. These topics always come up in your GCSE's so if you can spend some time revising this and consolidating on this it will stand you in good stead going into your GCSE years.

Additional work can be found here if you have managed to complete all of last week's tasks. There are around 30 worksheets to work through which will consolidate what you have done last week.

https://www.mathsgenie.co.uk/resources/2-angles.pdf
https://www.mathsgenie.co.uk/resources/4-angles-in-parallel-lines.pdf
https://www.mathsgenie.co.uk/resources/4-angles-in-polygons.pdf

Help can be found here:
https://www.youtube.com/watch?v=5NfXvBdwKJE
https://www.youtube.com/watch?v=gVo8ZrtlSp0

Lesson 3: Simple Fractions Decimals and Percentages

Learning Objective:

- Understand how to convert between fractions, decimals and percentages

Success Criteria:

- You will be able to convert a decimal to a percentage and a fraction
- You will be able to convert a fraction to a decimal and percentage
- You will be able to convert a percentage to a decimal and a fraction

Read through page 18 in your Revision Guide titled Fractions, Decimals and Percentages. It shows you how to convert between fractions, decimals and percentages. It highlights the 'awkward' one as converting a decimal to a fraction so pay attention to that. I know many of you are capable of doing that as we have covered it in class in the first half term.

In your Workbook work through pages 12 and 13. If you have read through your Revision Guide this should not prove too strenuous.

Additional work can be found here:
https://www.mathsgenie.co.uk/resources/2-fractions-decimals-and-percentages.pdf

Solutions to the worksheet can be found here:
https://www.mathsgenie.co.uk/resources/2-fractions-decimals-and-percentagesans.pdf

KS3 Science

Nutrition

Last week, we learned about nutrition. This week, we will be learning about the digestive system. The digestive system is the organ system that breaks food down into small molecules that are absorbed into the bloodstream. Digestion is helped by enzymes, which are biological catalysts.

Lesson 1 - Digestion

Learning Objective:

- To know the organs involved in digestion.

All	Name three organs in the digestive system.
Most	Name five organs and describe their function.
Some	Explain why food needs to be digested.

A balanced diet contains the different nutrients in the correct amounts to keep us healthy. Imbalanced diets can cause obesity, starvation, and deficiency diseases.

Read page 10 from the Key Stage Three Complete Revision and practice book.

- State 3 organs of the digestive system.
- Describe the function of the mouth.
- Describe the function of the oesophagus.
- Explain how the small intestine is adapted to its function.
- Explain the role of the liver within digestion.

Lesson 2 - Enzymes in Digestion

Learning Objective:

- To describe how enzymes aid digestion.

All	Know what an enzyme does.
Most	Describe what different enzymes do.
Some	Explain the importance of enzymes in the body.

Our teeth break food down into small pieces when we chew. This is only a start to the process of digestion, as chewed pieces of food are still too large to be absorbed by the body. Food must be broken down chemically into small particles before it can be absorbed. Enzymes are the biological catalysts needed to make this happen quickly enough to be useful.

Enzymes are not living things. They are just special proteins that can break large molecules into small molecules. Different types of enzymes can break down different nutrients:

- amylase and other carbohydrase enzymes break down starch into sugar.
- protease enzymes break down proteins into amino acids.
- lipase enzymes break down lipids (fats and oils) into fatty acids and glycerol.

Read page 11 and 12 from the Key Stage Three Complete Revision and practice book.

Amylase

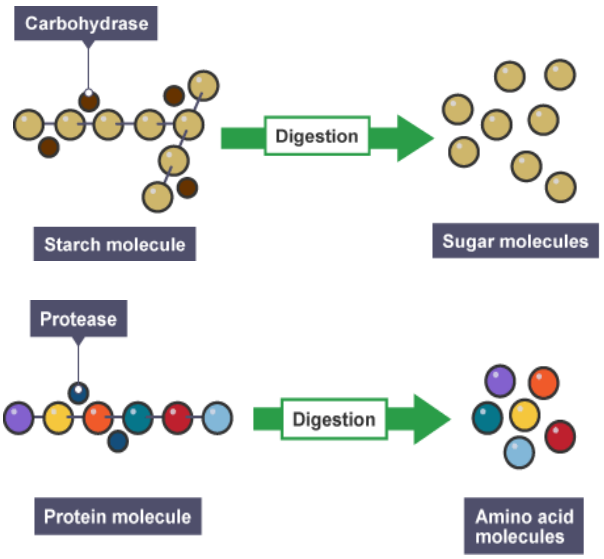
- Where is it made?
- Where does it work?
- What does it do?

Protease

- Where is it made?
- Where does it work?
- What does it do?

Lipase

- Where is it made?
- Where does it work?



Lesson 3 - Topic Consolidation

In this lesson, we are going to review what we have learnt this week. Each task is designed to help you remember key information and store it in your long-term memory.

Learning Objective:

- To assess what has been learned this week.

All	Recall facts digestion.
Most	Explain what each organ does and why.
Some	Apply digestion knowledge to a new situation .

Label each organ and describe their function.

nutritional information		list of ingredients
100g provides:		
energy	406 kJ	haricot beans, tomato purée, water, sugar, modified starch, salt, paprika, onion powder, herb extracts, spices
protein	5.4 g	
total carbohydrate	17.6 g	
sugar	6.0 g	
fat	0.4 g	
fibre	3.7 g	

(a) A healthy diet contains a number of groups of substances. The nutritional information lists some of these.
Give **one** group of substances, needed for a healthy diet, which is missing from the nutritional information.

..... [1 mark]

(b) (i) Which food, shown in the list of ingredients, provides the most protein in this

..... [1 mark]

(ii) Give **one** reason why we need protein in our diet.

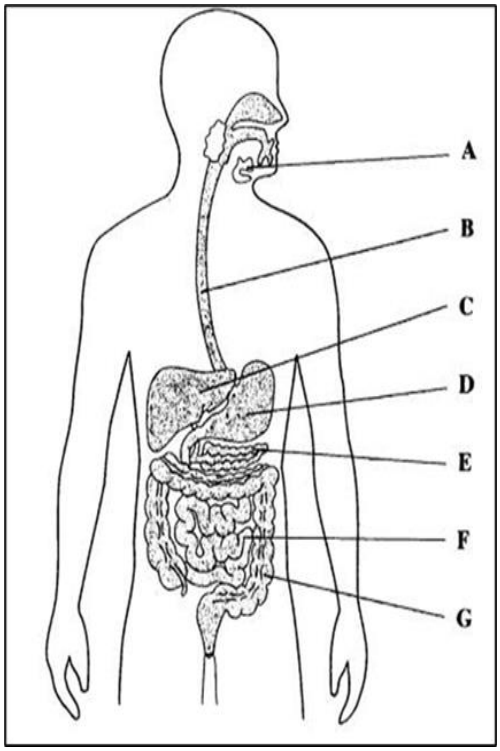
..... [1 mark]

(c) (i) Name **one** food, shown in the list of ingredients, which provides fibre.

..... [1 mark]

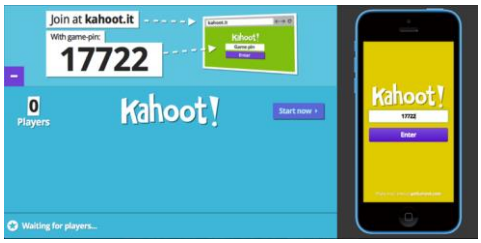
(ii) Why is fibre needed for a balanced diet?

..... [1 mark]



Wider Learning

BBC Bitesize has a variety of different videos, tests and games that will test your knowledge. Please watch all the videos on digestion.
https://www.bbc.co.uk/bitesize/articles/zsvmdp3



Kahoot

Game Pins - Digestion
Game PIN: 007933409