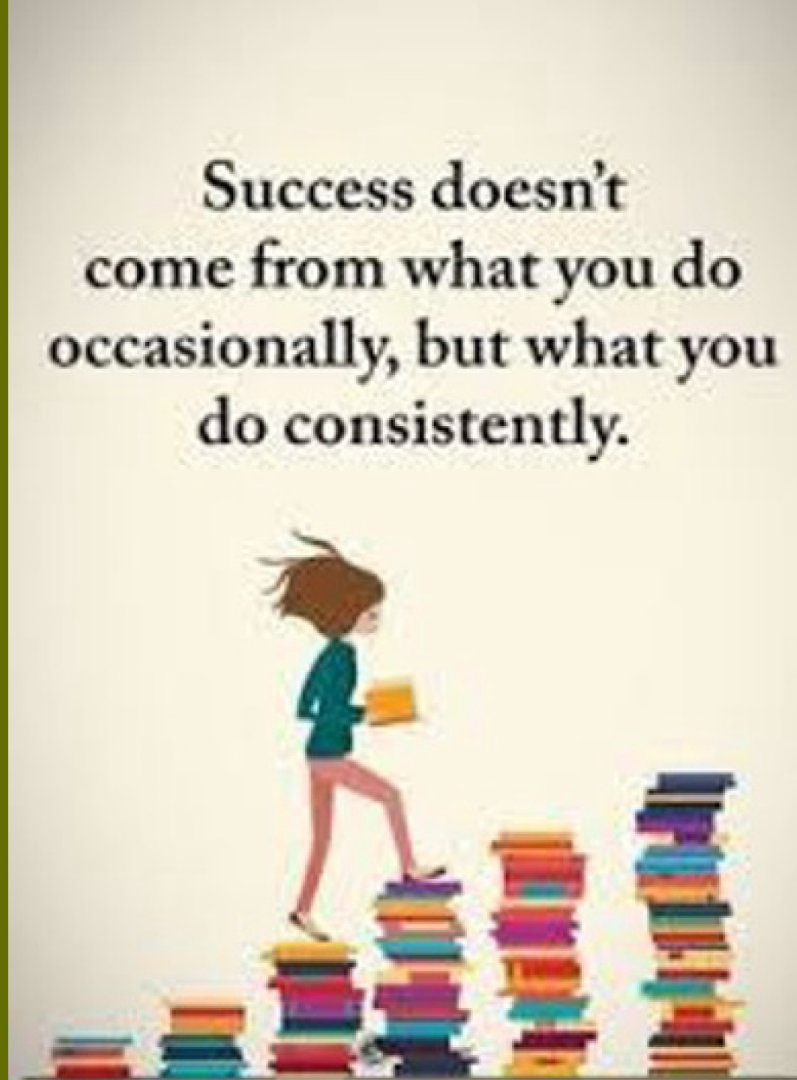
ST CHRISTOPHER'S
A CHURCH OF ENGLAND ACADEMY

# Year 11 Form Time

# Study Skills



## Study Skills During Form Time


# Let's get on top of REVISION!

## Why are we doing this?

- **Build on the advice from your Stepping Up Day and parent's information evening in Year 10**
- **Make the most of the time available**
- **Opportunity to work with others to improve revision technique**
- **Take control of your own revision**

# TASK 1

# RECASTING REVISION

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3


# TODAY:

**Before you properly attack your revision, you need to 'RECAST' your notes. This means rewriting / reorganizing them into something you have created.**

**NOT passively highlighting notes. It means ACTIVE and ENGAGED rewriting.**

**Experts reckon you should spend 50% of your revision time on this.**

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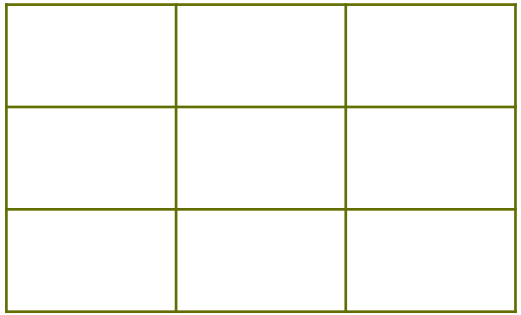
**One way of doing this is creating a 'Nine-Box Grid'. This method has been put forward by a student who studied at Oxford.**

**All you need is a blank piece of A4 paper. Fold it into 9 sections like this:**



**Your challenge is to summarise an <u>entire topic</u> into 9 boxes.**

**You have to fit it in the boxes. Don't use tiny writing! Think how you can CONDENSE what you need to know into each box.**

**You may not be able to do this today if you don't have a topic's worth of notes with you for any particular subject BUT you can CHOOSE A SUBJECT and MAKE A NOTE OF 9 POSSIBLE TOPIC AREAS for which you are going to make a 'nine-box grid'.**

# TASK 2
# MNEMONICS

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**
Psalms 1:3

# TODAY: MNEMONIC

**Example:**

## Richard Of York Gave Battle In Vain

**The colours of the rainbow (Red, Orange, Yellow, Green, Blue, Indigo, Violet)**

**A technique used in schools since the 1930s.**

**Using a rhythm, poem, limerick or rhyme can help you to draw large pieces of information from the long-term memory to the working memory.**

# MNEMONIC: Create Your Own

**Create your own mnemonic on a topic of your choosing.**

## Ideas

- **Seven characters from your English Literature text**
- **Five books of the bible**
- **Six key terms in Mathematics**
- **Seven elements of the periodic table**
- **Five key chapters of your humanities subject**

# TASK 3

# ENGLISH

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

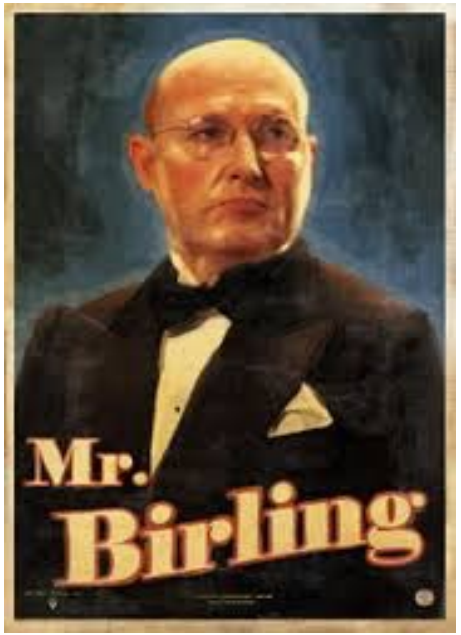
Psalms 1:3

# TODAY: ENGLISH

1. **Today we are focusing on English**

2. **Create your own grid detailed on the next slide**

3. **Fill in the boxes with 8 facts about Mr Birling, including 3 quotes** *(you could repeat this task for other characters in other texts you have studied).*



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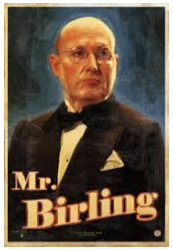
| **Quote:** |  | **Quote:** |
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# TASK 4

# STUDENT ON TRIAL

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

# TODAY: STUDENT ON TRIAL

## This will work best with a partner or in a small group

1. **Choose a subject. This will work best if you both have that subject (e.g. English Literature).**
2. **Choose either a topic, a lesson or a theme from that subject.**
3. **You are both on trial for 'knowing nothing about that subject'.**
4. **Prepare 4 questions each to put to your partner. Make sure you know the answers to the questions you are going to ask them!**
5. **Put your partner on trial!**

# TASK 5

# INDEX CARDS

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

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# TODAY: INDEX CARDS

1. Choose one of the following subjects that you study: Maths, English, Science, RE
2. Help yourself to an index card
3. Summarise the main points of your last lesson onto that index card
4. Finished?  Repeat for the lesson before

# TASK 6

# SUMMARISE

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3


# TODAY: SUMMARISE

1. **Choose one of the option subjects that you study:**

2. **Look back/think back to your last lesson**

3. **Summarise that lesson (what you learnt in that lesson) in no more than 5 bullet points**

# TASK 7

# MIND MAPPING

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

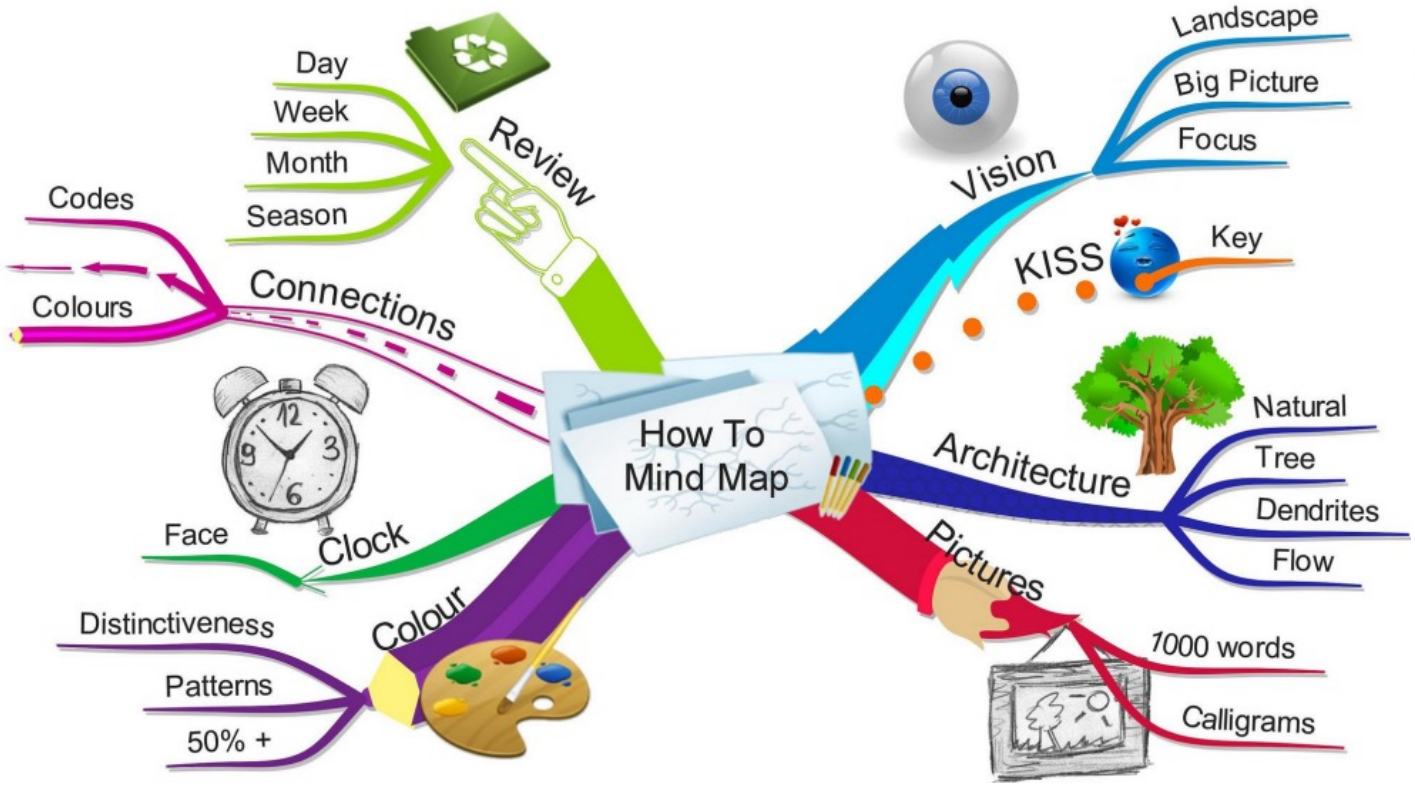
Psalms 1:3


# TODAY: MIND MAPPING

1. **Choose one of your subjects.**

2. **Choose a topic area you have studied recently. Read through your notes notes to make sure you understand what you learnt.**

3. **Create a mind map of the topic area.**

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# TASK 8

# KNOWLEDGE SHARING

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

# TODAY: KNOWLEDGE SHARING

1. **Choose one of the following subjects: English, Science, Maths, RE**

2. **Choose one lesson / page of your notes completed in the last two weeks. Read through those notes to make sure you understand what you learnt.**

3. **Close your book. Teach your partner! (Explain what you learnt that lesson)**

**REMEMBER**

*You are able to retain about 90% of what you are able to teach to others!*

# TASK 9

# RELIGIOUS EDUCATION

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

# TODAY: RELIGIOUS EDUCATION

1. Today we are focusing on RE

2. Using the example on the next slide, you are going to create your own fill in the blank

3. You can repeat this for other topic areas. E.g Islam, Judaism, Religion and Life, War, Peace and Conflict etc

# Fill IN THE BLANKS

**Create your own fill in the blank on the topic of Christianity.**

**This should consist of a few sentences with 4/5 blanks.**

The X _____ is a popular programme on ____.

All of the contestants are extremely _____ and _____.

Simon Cowell always says _____ things and makes the performers feel _____ about themselves.

# TASK 10

# KEY WORDS

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3


# TODAY: KEY WORDS

1. **Choose one of the following subjects**: History, Geography, German, French, Spanish PE, Design and Technology, Art, Computer Science, Music, Triple Science, RE, English, Science, Maths.

2. **Find 10 key words from your current topic in that subject. Highlight them.**

3. **Now make a glossary of those words (list them with their definitions).**

# TASK 11

# QUIZ TIME

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

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# TODAY: QUIZ TIME!

**Today we are focusing on Science**

**We will test your knowledge of Biology, Chemistry and Physics. Any questions you get wrong; be sure to revise them using the techniques you have been practicing.**

# BIOLOGY

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1. Name the enzyme which breaks down starch.
2. Which part of a cell synthesises (makes) protein?
3. What is meant by the term heterozygous?
4. What causes an enzyme to become denatured?
5. How does skin protect the body from infection?
6. Which chamber of the heart pumps blood to the body?
7. Which component of blood causes clotting?
8. What are the products of photosynthesis?
9. What is the main difference between and aerobic and anaerobic respiration?
10. Which is the faster method of altering the genes of an organism - genetic modification or selective breeding?

# BIOLOGY - ANSWERS

1. *Amylase*
2. *Ribosomes*
3. *Having two different alleles (one dominant, one recessive)*
4. *Extremes of pH or very high temperatures*
5. *It acts as a physical barrier, blocks entry*
6. *Left ventricle*
7. *Platelets*
8. *Glucose and oxygen*
9. *Aerobic requires oxygen (anaerobic produces lactic acid)*
10. *Genetic modification*

# CHEMISTRY

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1. Which is more reactive sodium or zinc?
2. Name a strong acid.
3. How do you calculate the number of neutrons in an atom?
4. What is an ion?
5. What is reduction?
6. How do you test for the presence of carbon dioxide gas?
7. What would you see if you added potassium to water?
8. The molecular mass of iron is 56, what is the mass of one mole of iron?
9. Name a metal which must be extracted using electrolysis.
10. How do you calculate the Rf value of a substance?

# CHEMISTRY - ANSWERS

1. *Sodium*
2. *Hydrochloric / Nitric / Sulfuric*
3. *Mass number – proton number = number of neutrons*
4. *A charged atom / an atom which has gained or lost electrons*
5. *Reduction is gain of electrons*
6. *Bubble through limewater and it turns cloudy / milky*
7. *Flame, explosion, fizzing, gas released, moving around on water*
8. *56g (must have grams to be correct)*
9. *Aluminium / anything more reactive than carbon*
10. *Rf = distance travelled by spot/distance travelled by solvent*

# PHYSICS

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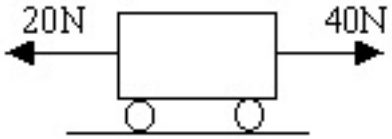
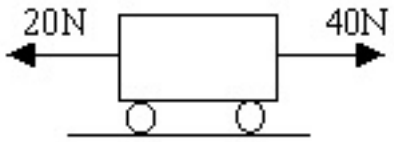
1. How many laws does Newton have?
2. Name a factor which affects braking distance.
3. What is the resultant force shown in the diagram?




4. What is a vector?
5. Is velocity a vector or a scalar?
6. Which electromagnetic wave has the longest wavelength?
7. How does the mass of an atom change when is undergoes alpha decay?
8. What does the spring constant describe about a spring?
9. How must a voltmeter always be connected to a circuit?
10. What is the name of the blue wire in a plug?

# PHYSICS - ANSWERS

1. *Three (go and revise them!)*
2. *Road surface, weather, tyre wear.*
3. *20N →*
4. *A value with magnitude and direction*
5. *A vector?*
6. *Radio waves*
7. *It decreases by 4*
8. *How easy or hard it is to stretch or compress*
9. *In parallel*
10. *Neutral*



# TASK 12

# LEARNING POINTS

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

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# TODAY: LEARNING POINTS

1. **Choose any book from your bag.**

2. **Choose a topic from that book.**

3. **Imagine you were allowed to take one page into the exam. What would you write on it for that topic? You should put down the main learning points.**

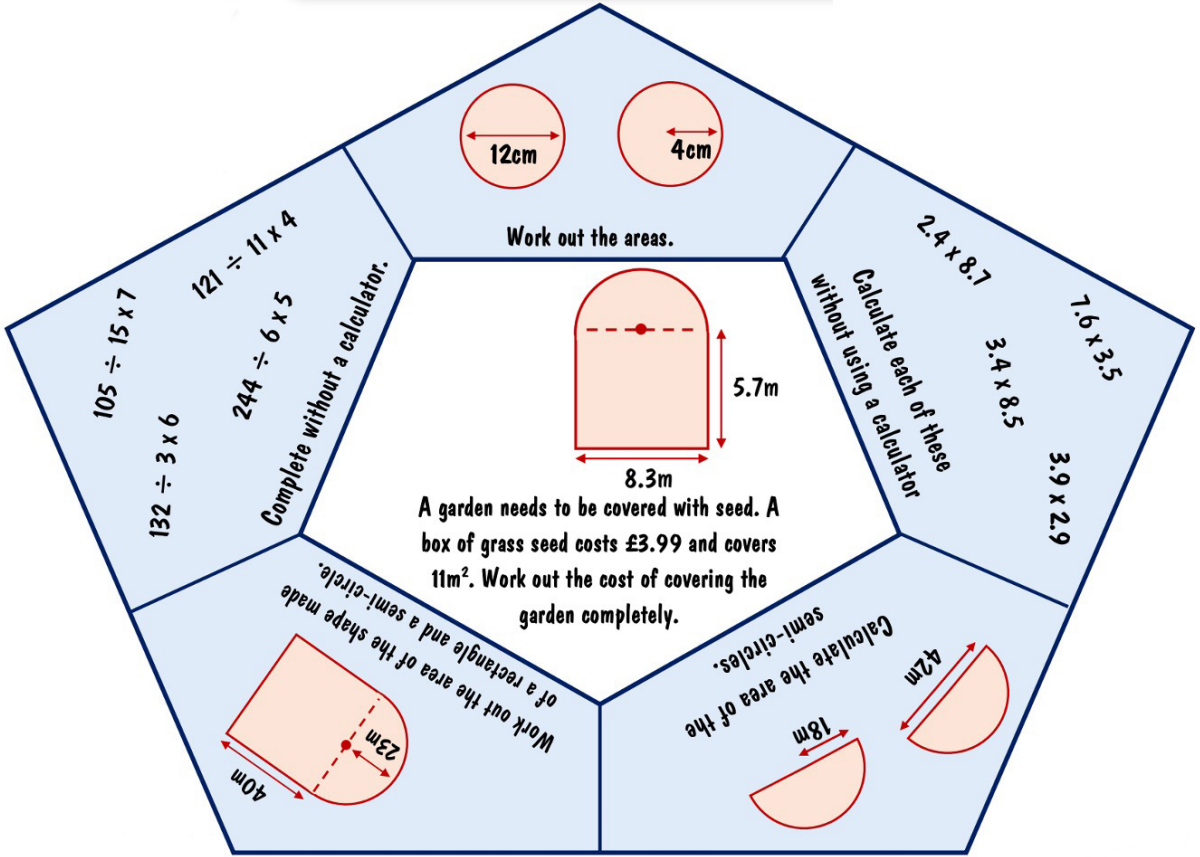
# TASK 13
# MATHEMATICS

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**
Psalms 1:3


# TODAY: MATHEMATICS

1. **Today we are focusing on Mathematics**

2. **Tackle the 5 key skills round the outside of the 'Big Question'. Once you are confident on each of the 5 areas you should be equipped with everything you need to tackle the center problem.**


Complete without a calculator.
105 ÷ 15 x 7
121 ÷ 11 x 4
132 ÷ 3 x 6
244 ÷ 6 x 5
Work out the areas.
12cm
4cm
A garden needs to be covered with seed. A box of grass seed costs £3.99 and covers 11m². Work out the cost of covering the garden completely.
5.7m
8.3m
Calculate each of these without using a calculator
2.4 x 8.7
7.6 x 3.5
3.4 x 8.5
3.9 x 2.9
Work out the area of the shape made of a rectangle and a semi-circle.
40m
23m
Calculate the area of the semi-circles.
42m
18m

# TASK 14

# QUESTION?

**“That person is like a tree planted by streams of water, which yield its fruit in season and whose leaf does not wither – whatever they do prospers.”**

Psalms 1:3

YEAR 10

# SILENT STARTER - BACK OF BOOKS

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- This is the answer what is the question.

- **Write down as many questions that you can think of, that would result in this answer.**

- **JESUS.**

That person is *like a tree* planted by streams of water,
which *yields its fruit* in season and
whose leaf **does not** wither
~ *whatever they do* *prospers.*
Psalm 1:3


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# *Ad Gloriam Dei*

## To the Glory of God

www.st-christophers.org

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