# Holding screen: Parent Forum

Hello everyone, Thank you for joining our parent forum. This forum is on **Self-Directed Assignments** and will begin at **5 PM**.

If you have any questions that are relevant to this forum, that we could answer during this session, then please email your question to <a href="mailto:parentforum@rodingvalley.net">parentforum@rodingvalley.net</a>.

**Note:** If you have a personal question relating to a specific subject etc, then please do contact the subject lead, subject teacher, or Year Progress Leader.

The parent forum email address will expire after the sessions.

### Email- parentforum@rodingvalley.net











### **SELF-DIRECTED ASSIGNMENTS**

Benefits and support

"Meaningful practice"

Independent learning

Student outcomes









Develops independence



Achievement & Resilience

Consolidates

Develops

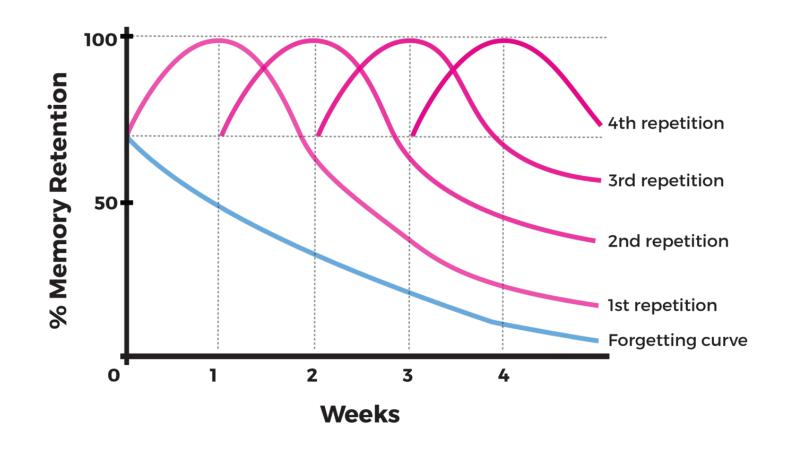
Develops new learning recall ability subject skills

### **Curve of Forgetting**

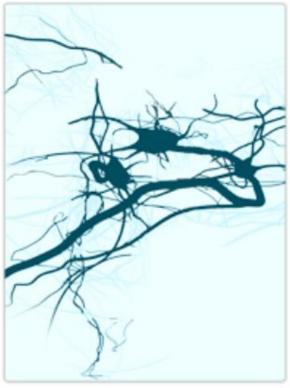
For newly learned information



Ebbinghaus







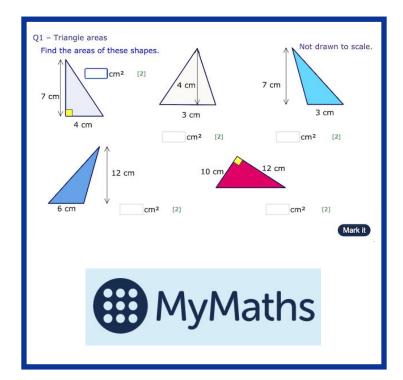


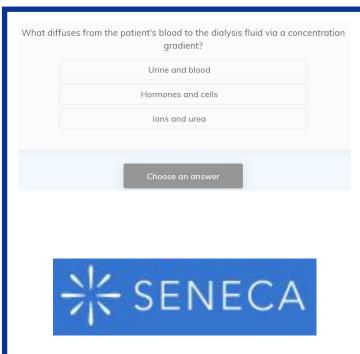
Neural networks **before** training

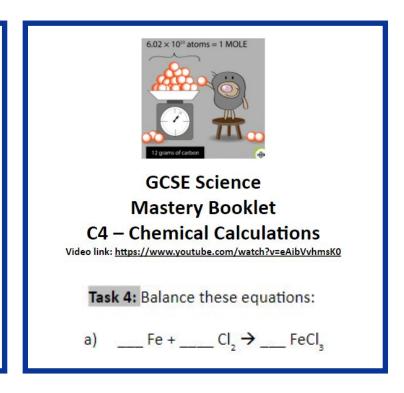
Neural networks **2 weeks** after stimulation

Neural networks 2 months after stimulation

## Neuroplasticity







## "Meaningful practice"



## Learning during lockdown at RVHS

- Live lesson
  - new learning directed by a teacher
  - practise lesson using MyMaths, begins with direction from a teacher



• At the end of the lessons, teacher will be available to answer any questions



## Independent learning at RVHS

- Self study lesson using Oak National Academy
  - lessons designed by Mathematics Mastery, our partners on the delivery of the Maths curriculum
  - resources used are similar to what would've been used in the classroom



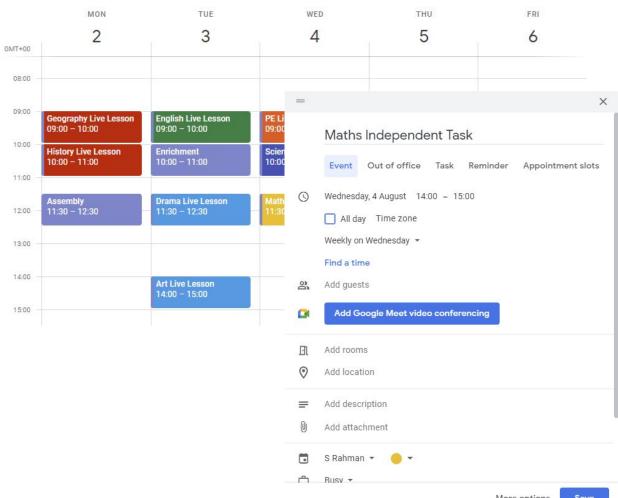
Maths Clinic for those who need extra support



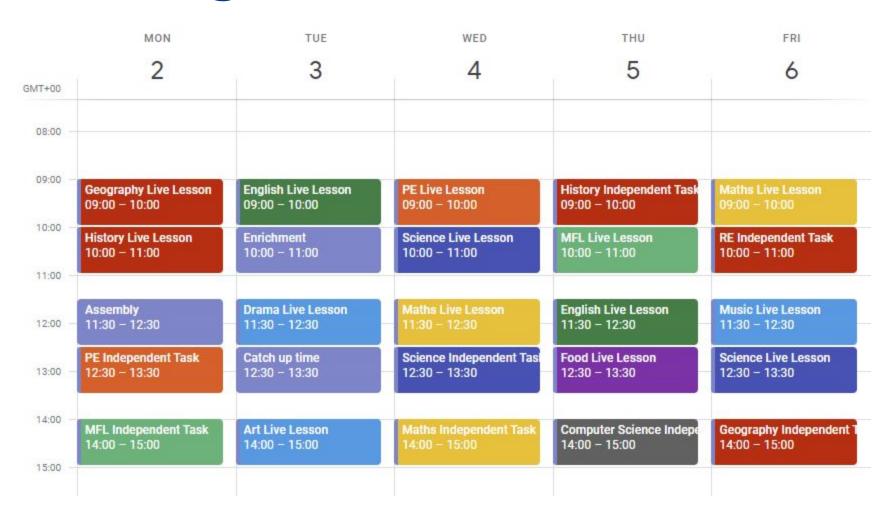
## **Time Management**

Google Calendar with live lessons

Self study tasks can be booked in to student calendars help manage time



## **Time Management**



			Year 7					
			Mon	Tue	Wed	Thu	Fri	
2	09:00	10:00	Geography	English	PE	History	Maths	
3	10:00	11:00	History		Science	MFL	RE	
4	11:30	12:30	Assembly	Drama	Maths	English	Music	
5	12:30	13:30	PE		Science	Food	Science	
			MFL	Art	Geography	Computer Science		
6	14:00	15:00						

#### **KS3 SCIENCE CONTINGENCY 2021**

WHOLE SCHOOL CONTINGENCY TIMETABLE

- 1) HOME LEARNING: assignment with video instruction + Phy (45m) directed work + GQuiz: (10 Qs)
- 2) Online Lesson 1\*: Bio content, equivalent to 2hrs (Y9/Y8) or 1hr (Y7)
- 3) Online Lesson 2\*: Che content (1hr)





This brand-new enterprise has been created by 40 teachers from some of the leading schools across England, backed by government grant funding. It will provide 180 video lessons each week, across a broad range of subjects from maths to art to languages, for every year group from Reception through to Year 10.

## Independent learning

"Meaningful practice"

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Student outcomes









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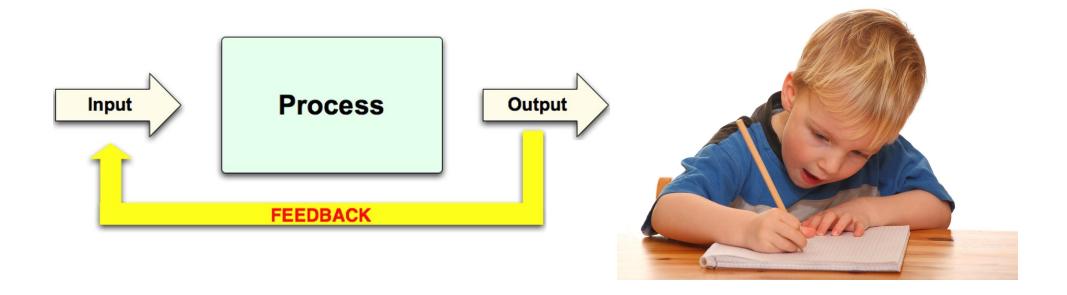
Develops new learning recall ability subject skills





- Achievements
- Independence and resilience
- Setting up for the future

### **Student outcomes**



## **FEEDBACK**

Which promotes progress



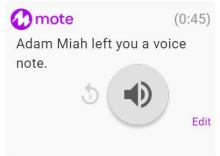


#### Describe in detail the 'asteroid' theory for dinosaur extinction (<u>use pg. 247</u>)

Theory details: The hypothesis that an Astroid collided with Earth and threw up loads of material was thrown up into the atmosphere which therefore blocked out the Sun. This then caused temperatures to drop and killing 70% of all life.

Evidence: A large crater with iridium in (a metal only produced under massive force)





11 Feb, 18:35

it would get thinner as you move away? i'll add it now sir

Adam Miah 11 Feb, 18:39

Brilliant! Levels of iridium definitely do decrease outwards from the crater, much much further than the crater itself, suggesting it was a true catastrophic event.

### Mote

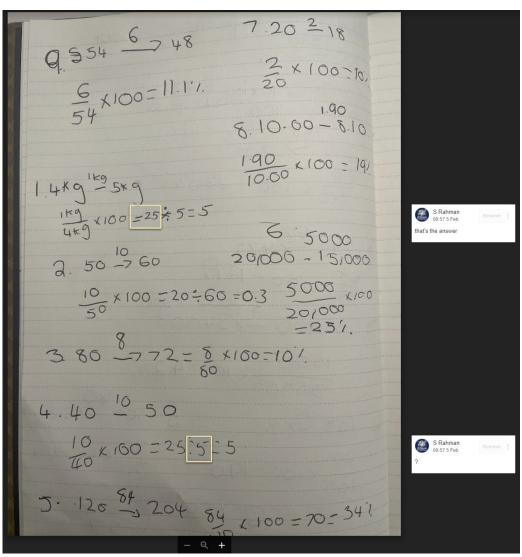


## Google Classroom

 Feedback given directly on top of submitted work

 "Chatbox" to have a conversation about the work if needed

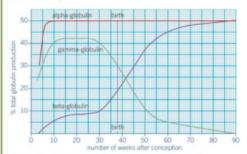
 Students will receive an email when feedback is left





#### Gene expression in haemoglobin

A haemoglobin molecule is made up of four polypeptide chains each known as a globulin. In adult humans two of the polypeptides in a haemoglobin molecule are alpha-globulin and two are beta-globulin. In other words, 50% of the total globulin in all haemoglobin is alpha and 50% is beta. In a human fetus, however, the haemoglobin is different, with much of the beta-globulin being replaced by a third type, gamma-globulin. Fetal haemoglobin has a greater affinity for oxygen than adult haemoglobin. The changes in the production of the three types of globulin during early human development are shown in Figure 2.



▲ Figure 2 Percentage total globulin production during early human development

Humans have genes that code for the production of all three types of globulin. The production of the different haemoglobins depends upon which gene is expressed. The expression of these genes changes at different times during development.

- Suggest an advantage of fetal haemoglobin having a greater affinity for oxygen than adult haemoglobin.
- 2 At birth, what percentage of the total globulin production is of each globulin type?
- 3 Describe the changes in gene expression that occur at 30 weeks.
- 4 Outline two possible explanations for the change in the expression of the gene for gamma-globulin after 30 weeks.
- 5 Sickle cell disease is the result of a mutant form of haemoglobin. In Saudia Arabia and India, some individuals have high levels of fetal haemoglobin in their blood, even as adults. Where these individuals have sickle cell disease, their symptoms are much reduced. Suggest how controlling the expression of the genes for globulin might provide a therapy for sickle cell disease.

- 1. The fetal hemoglobinharmoglobin will readily load oxygen more as it has 2 blood supplies, one of its own and one from the placenta of the mother
- 2. Alpha 50%, gamma 30%, beta 20%
- 3. At week 30 alpha is expressed the most. Beta is starting to be expressed more shown in the increase and gamma is decreasing so is being expressed less
- 4. Maybe there's a decrease in gamma because something is preventing it from transcribing and so it cannot express its genes any more.
- 5. You would try to express the gene of one globulin so it overrides the other and can help reduce the disease

#### Summary questions

- What is the role of a transcriptional factor?
   They stimulate transcription of a gene and expresses it
- 2. Describe how oestrogen stimulates the expression of a gene. Oestrogen is lipid soluble and so diffuses across the cell-surface membrane. Once inside the cytoplasm, the shape of the site and the shape of the oestrogen complement one another. Oestrogen causes the transcriptional factor to



Above expectations:
exceptional work showing
perseverance and
endeavour. Optional
challenge:
https://quizlet.com/56529276

AMBER (2/3) 2 pts

Meets expectations:
acceptable works that
meets minimum
requirements and
expectations of student.
Try this task:
https://quizlet.com/565339

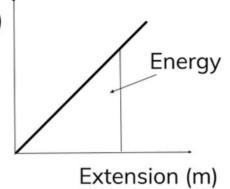
Below expectations:
work that is insufficient
for student's ability,
suggesting a lack of
effort in the weekly
preparation and task.

Peguired followen task:









 The elastic potential energy stored in a stretched spring equals the area under the force-extension graph.

When work is done on a spring, what is stored in the spring?



Elastic potential energy	~
Friction	×
Electricity	
Mass energy	

#### Elastic Potential Energy Stored in a Spring

$$=\frac{1}{2} \times \text{spring constant} \times \text{extension}^2$$

force	
elastic potential energy	
length	

### Seneca

### Celebration!

 Examples of Excellent work is shared with the RVHS community using the Bulletin and Broadcasts



During this period of lockdown, we thought it would be fantastic to celebrate the outstanding work that our students have been doing from home.

Congratulations to all of our students, who have displayed such resilience and have adapted to the change amazingly.

Remember to keep up the fantastic work and if you would like your work presented in the bulletin please send it to your class teacher or to Miss Larkin at plarkin@rodingvalley.net

Congratulations to Gabriella Vlietinck for her amazing work in history, this was done during a live lesson with Ms Preston



to Melissa C for her amazing work in Biology.



D VIDEO- MAIN Structure | A-level Co | CCR, non, Edisch

#### Student Work

We are very pleased with the quality of the work that is being completed at home. Whilst we do not have the space to show all work that is being completed, here is a small selection.



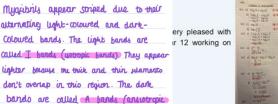
Excellent work on properties of quadrilaterals by Arthur Chloe and Hannah in Year 7 Mr Edeko was very impressed!



Mr Edeko was also pleased with Connie in Year 8. Grea work on Gradients!



Megan. working



ork on Google Classroom and y

#### Student Work

We are very pleased with the quality of the work that is being completed at home. Whilst we do not have the space to show all work that is being completed, here is a small selection.

Excellent work this week from Enru in Year 8 working on Gradients. Miss Harbutt was particularly impressed and commended you on the neatness and high standard of your work. Well done!



Mr Qureshi was very pleased with work produced by Alice and Morgan in Year 10 on Simultaneous Equations.



Mr Rahman was impressed with the quality of work produced by Emma in Year 11 whilst working on Graphical Inequalities.



And Mr Naidoo was very pleased with his Year 11 class as they worked through Non-Linear graphs.

Make sure to submit you work on Google Classroom and your work may be included in future

overlap un this region.

Muscipil Barding

Another important protein found in much is

Myggishis appear striped due to their

atternative light-coloured and dark-

Coloured bands. The light bands are

lighter because the thick and thin plamento

don't overlap in this region. The dark

bands). They appear darker because the thick and thin columns

At the centre of each A band is a lighter-coloured region called the H-zone. At the centre of each I band is a line called

the 2-line. The distance between adjacent 2-lines is called a

and the pattern of eight and dark bands changes.

sarcomere When a muscle contracto, these sarcomeres shorten

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