BROOKFIELD COMMUNITY SCHOOL

COMMITTED TO EXCELLENCE

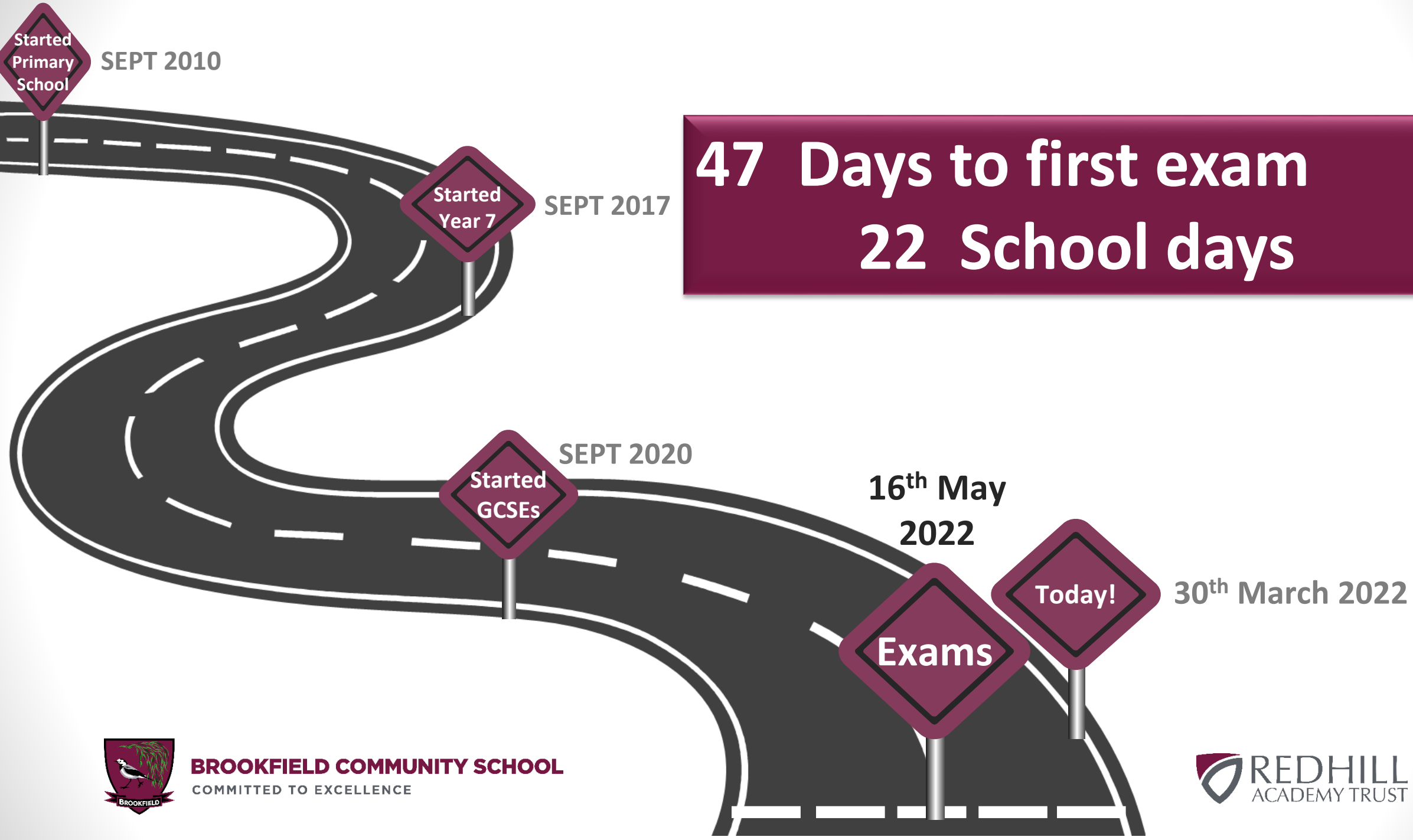
# Route to Exams

# Science

REDHILL ACADEMY TRUST

**“What you do today can improve all your tomorrows”**

**Ralph Marston**




# 47 Days to first exam
# 22 School days

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# Revision Process

6 Exams:

- B1 and B2
- C1 and C2
- P1 and P2

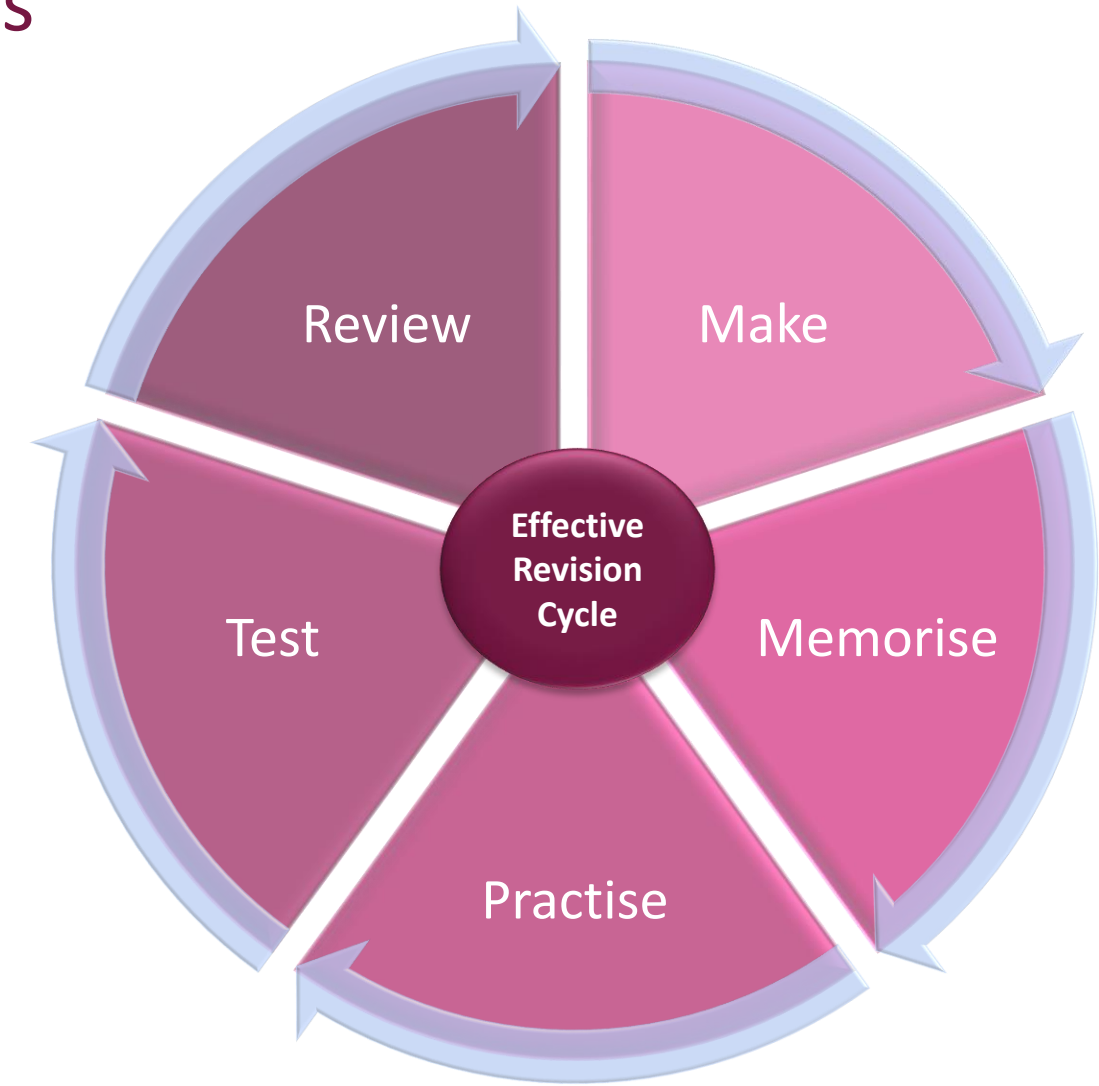
An advantage- less content to prepare for each

Know what is in them and when they are

Required practicals

Revision timetable

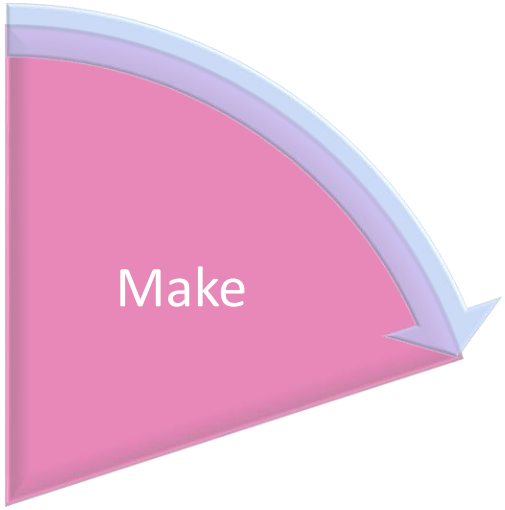
# Revision Process



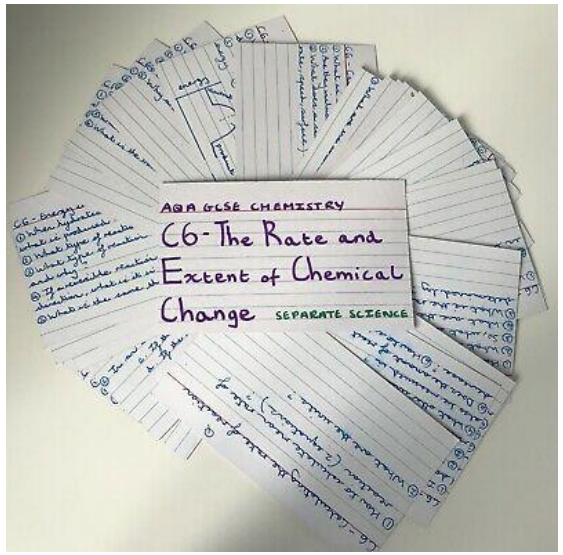
Flash Cards

Mind Maps

Condensing Notes

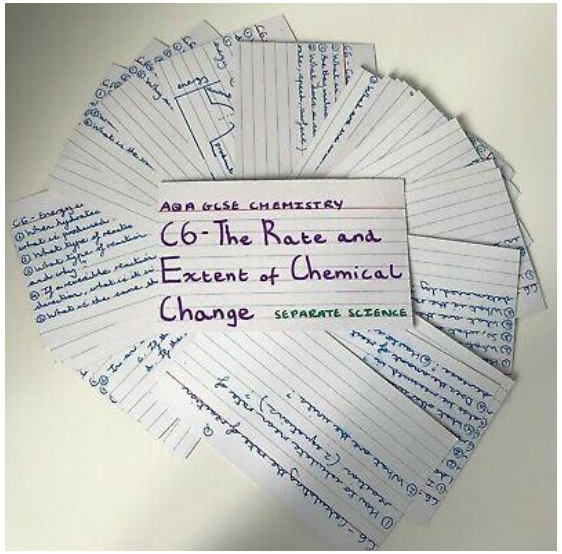


# Advance Notice Material



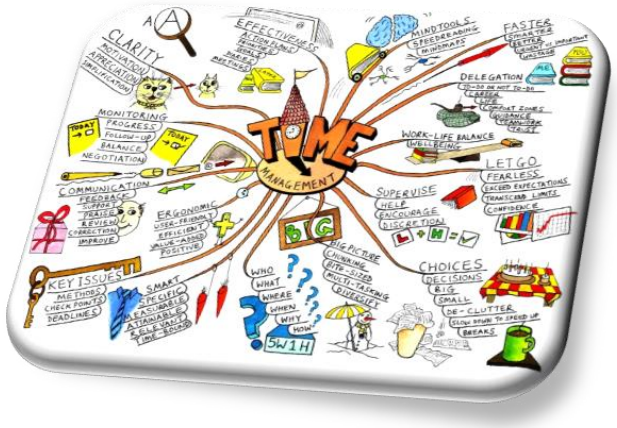

- A3 sheets sharing what is in and what is out
- Really important you are revising the correct content
- Can we predict what will be in the exam?
- Yes- Required practicals for instance

# Flash Cards




- Question or key term on one side
- Answer or definition on the other
- Keep information as short as possible
- Write clearly- you should be able to read what you have written at a very quick glance
- Use different coloured card or pens for different subject /topics
- Review and test them regularly

# Mind Maps




- Use a key image to represent the topic at the centre
- Use large branches for the main topics and smaller branches for sub-topics
- Use different colours for branches
- Use lots of images to trigger your memory
- Use key words and phrases – don't write too much
- Science have lots of examples of these

**Don’t just copy sentences – use your own words!**

**Order your notes in Science**

**Put content into 1 of 6 exams**

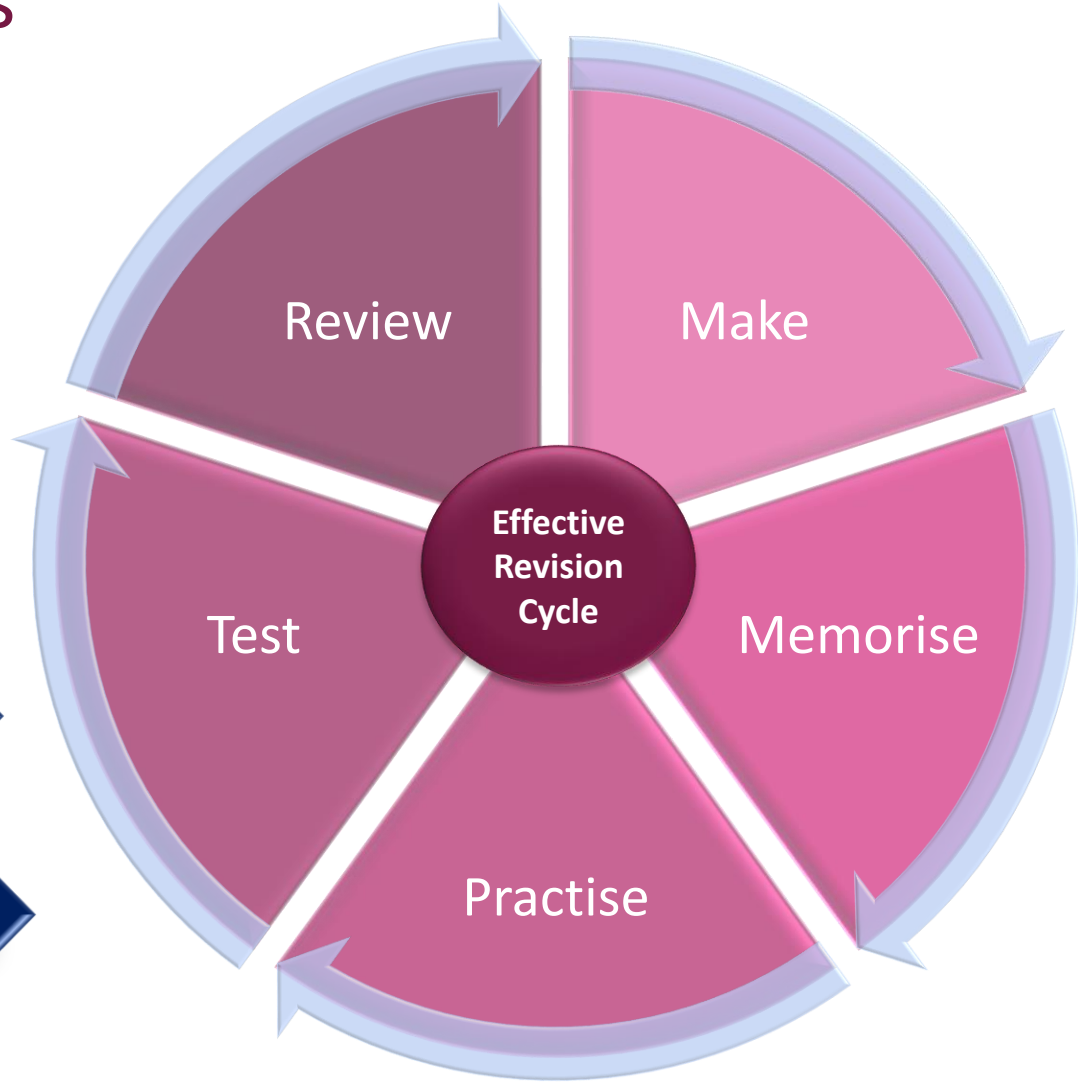
**Check against the A3 sheets**

## Condensing Notes

- Choose a topic or part topic (not too large)
- Write out key words, phrases, diagrams, quotes etc that trigger your memory
- Pick out key diagrams, quotes etc.
- Re-read your notes and check they makes sense and contain key information.
- Make sure you use your own words – don’t just copy
- Re-write them again – further summarising

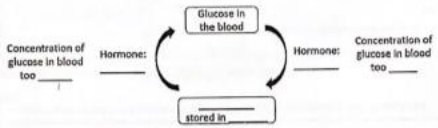
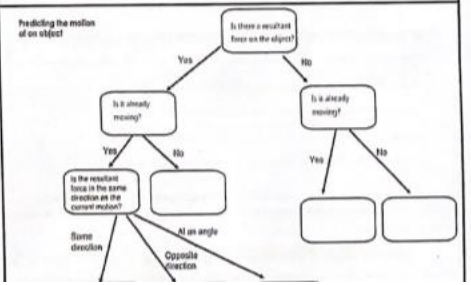
# Revision Process

- Weekly Booklets
- Use past papers & mark schemes
- Educake



# Revision Process- Weekly booklets

Week 1.1 – Recall | 9 school weeks to go

| B1 – 4.1.2.1-4.1.2.2 Chromosomes, Mitosis & The Cell Cycle | B2 – 4.5.3.2 – Control of blood glucose concentration | C1 – 5.2.2.3 – Properties of ionic compounds |
|---|---|---|
| 1. DNA is arranged into chromosomes and stored in which organelle of a eukaryote cell?<br>2. How many pairs of chromosomes does each human body cell (exc. gametes) contain?<br>3. Why are chromosomes arranged into pairs?<br>4. Number these statements in the order of the cell cycle<br>• Cytoplasm and cell membranes divide to form two identical cells.<br>• DNA is replicated – 2 copies of each chromosome<br>• Cell grows in size and number of organelles such mitochondria and ribosomes increase<br>• Mitosis - one set of chromosomes is pulled to each end of the cell and the nucleus divides. | 1. Which organ monitors and controls blood glucose concentration?<br>2. Complete this diagram to show the negative feedback cycle to control blood glucose levels<br>  <br>3. How is Type 1 diabetes treated?<br>4. What is Type 2 diabetes?<br>5. How is Type 2 diabetes treated?<br>6. What are the risk factors of Type 2 diabetes? | 1. Draw the correct charges into this diagram to represent an ionic lattice<br>  <br>2. Match the property of an ionic compounds to its explanation<br>High melting and boiling points<br>Ions are not free to move and carry a charge<br>Do not conduct electricity when solid<br>Strong electrostatic forces of attraction between oppositely charged ions<br>Conduct electricity when liquid (l) or aqueous (aq)<br>Ions are free to move and carry a charge |
| **C2 – 5.6.1.2-5.6.1.3 Collision theory, activation energy & factors affecting rate of reaction** | **P1 – 6.1.1.4 & 6.2.4.1 - Power** | **P2 - 6.5.4.2.1 Newton's First Law** |
| ***Complete to describe collision theory***<br>Chemical reactions can occur only when reacting particles _____ with each other, with enough _____ . The minimum amount of energy that particles must have, to react is called the _____<br>Increasing the concentration of aqueous reactants, the pressure of reacting gases, and the surface area of solid reactants, increases the _____ of collisions and so _____ the rate of reaction. | 1.Change the subject of this equation to calculate the energy transferred by a device.<br>***Power = energy transferred/time***<br>2. Change the subject of this equation to calculate the potential difference of a component<br>***Power = potential difference x current***<br>3. Change the subject of this equation to calculate |  |

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# Educake

- Decide which topic you are revising
- Which exam will this be in?
- See as many exam style questions as possible
- Feedback
- Links to online resources

# What next?

- Bring calculators and all equipment to every exam and every lesson
- Past Papers will be given out to practise on over Easter
- Lots of content in Science, the key is to break it down
- What is in each exam?
- What do I not get? Make a list

# Summary- What should I be doing?

- Checking you know the content for each exam
- Making revision resources
- Answering past papers (use mark schemes too)
- Attending P6 and Easter sessions