What can you do to help your child succeed in their science GCSE

“I don’t know what to do”

“I don’t know what to do first”

“I don’t know where to find resources”

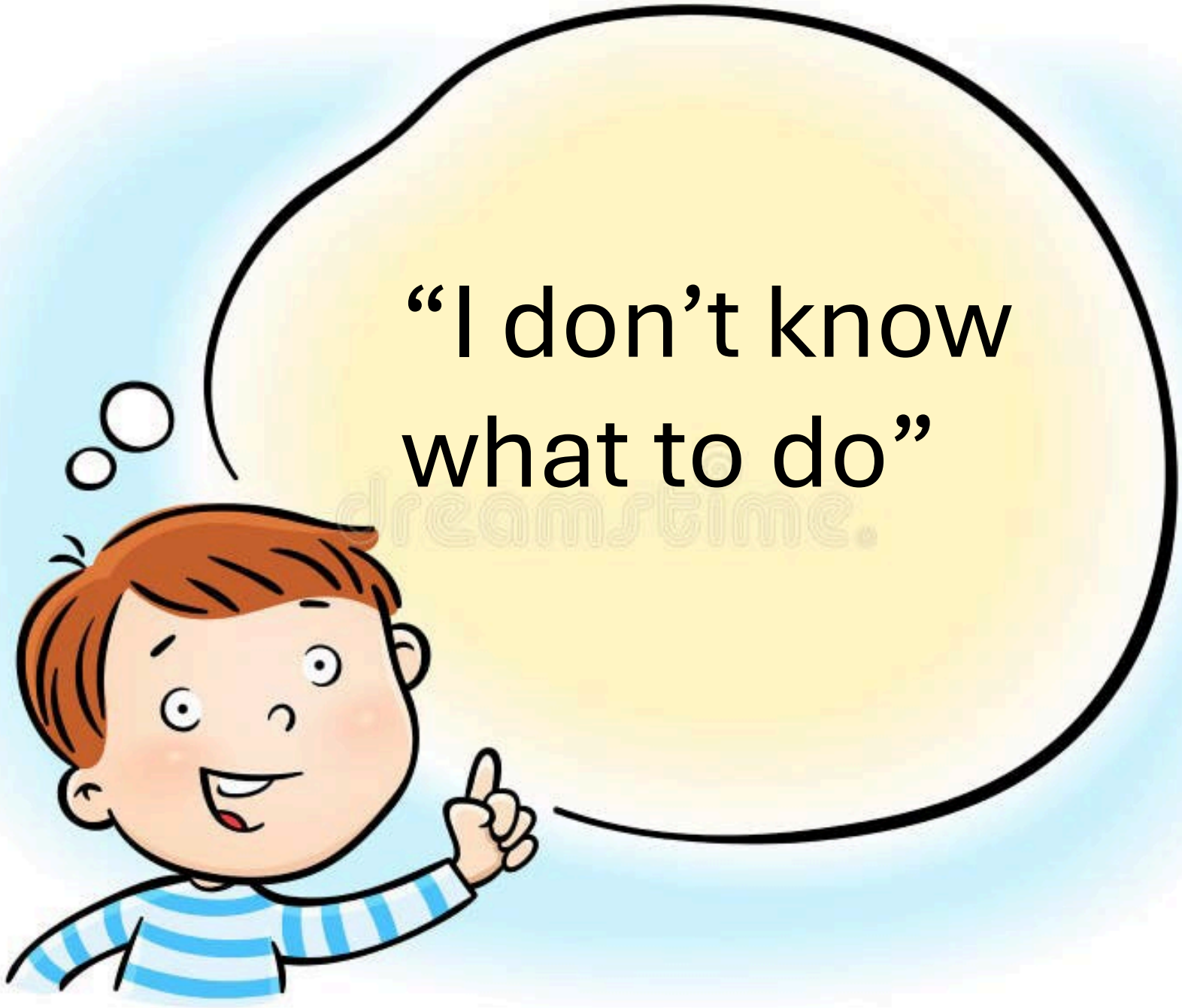
“I don’t know how to revise science”

“I don’t know what to focus on”

Where to find resources

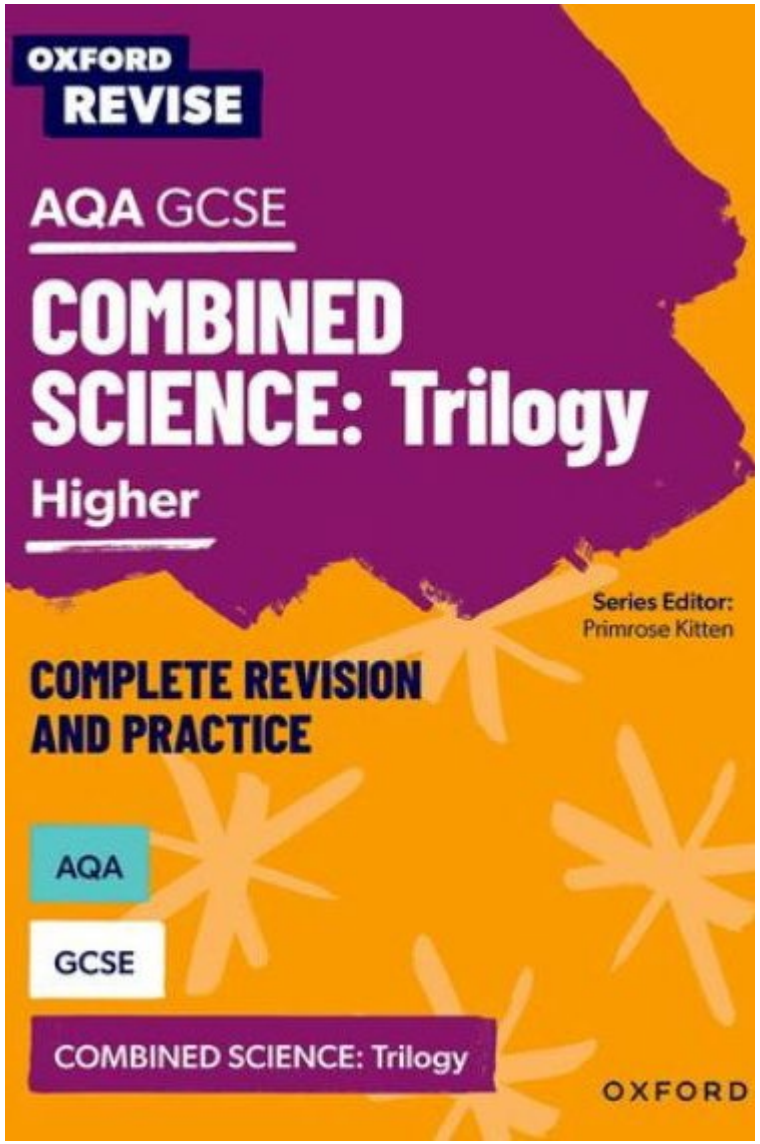
What you should should be doing to revise

What should their focus be


“I don’t know what to do”

Exam board is AQA

The tier and if they are triple or combinded effect the content examined.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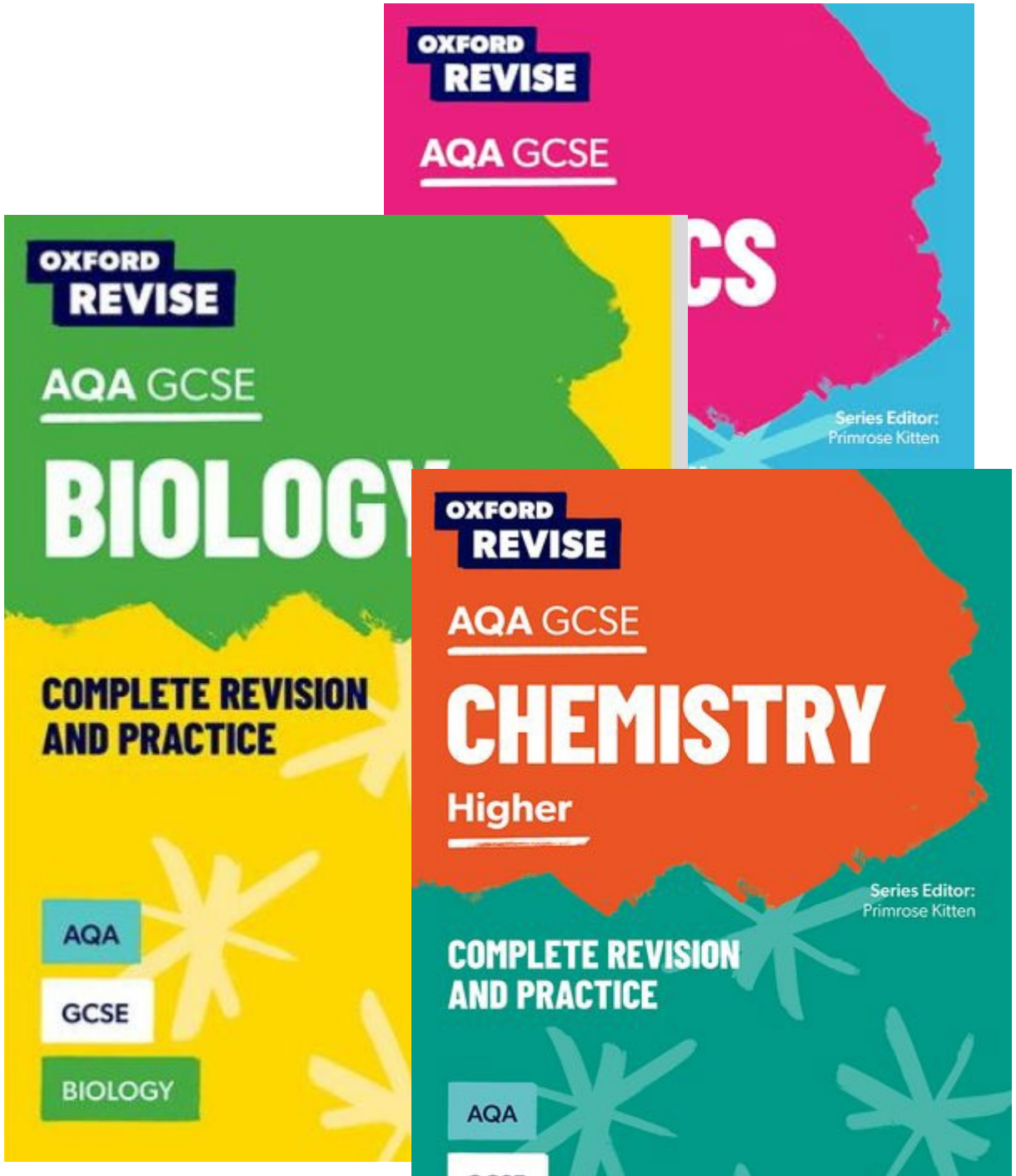
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“I don’t know where to find resources”

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Past Papers
Past GCSE/IGCSE and A-level papers

Solution Banks
Solution Banks for A-level Maths

PMT Education Blog
PMT Education's advice blogs for students, parents and teachers.

Past Papers

Below you will find AQA, CAIE, Edexcel, OCR, Eduqas and WJEC past papers and mark schemes for the following subjects:

GCSEs & IGCSEs

- Biology
- English Language
- Maths
- Chemistry
- English Literature
- Physics
- Economics
- Geography
- Combined Science
- Psychology
- History
- Computer Science

A-Levels & IAL

- Biology
- Economics
- Physics

Conr

GCSE / IGCSE Combined Science Papers

9-1 GCSEs (UK)

AQA

- Biology 1
- Biology 2
- Chemistry 1
- Chemistry 2
- Physics 1
- Physics 2

Edexcel

- Biology 1
- Biology 2
- Chemistry 1
- Chemistry 2
- Physics 1
- Physics 2

OCR

Science A (Gateway)

- Paper 1 (F) Biology
- Paper 2 (F) Biology
- Paper 3 (F) Chemistry
- Paper 4 (F) Chemistry
- Paper 5 (F) Physics
- Paper 6 (F) Physics

OCR

Science B (21st Century)

- Paper 1
- Paper 2
- Paper 3
- Paper 4
- Paper 5
- Paper 6
- Paper 7
- Paper 8

Eduqas

- Component 1
- Component 2
- Component 3
- Component 4

WJEC

- Unit 1
- Unit 2

GCSE Combined Science

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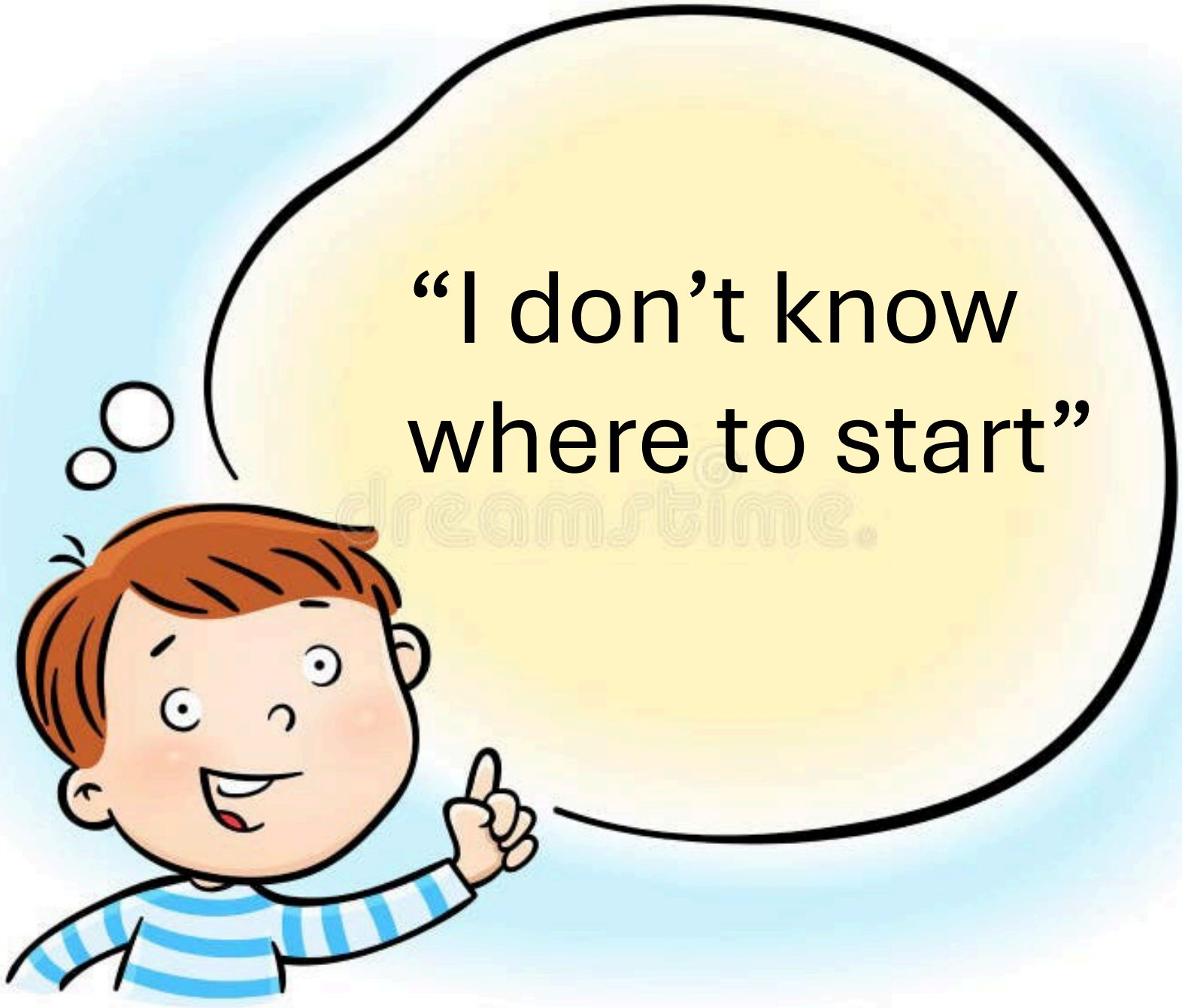
“I don’t know where to start”

Recall key definitions, systems, processes.

Model Exam Question Booklet Combined Science

This booklet is split into 3 parts.

Part 1
A selection of short response questions and answers that are likely to come in the exam paper. Spend time learning the answers to these questions, for example you could produce flash cards. You should self quiz yourself on these questions regularly!

Part 2
Selection of extended response questions (4 to 6 marks) that are likely to be on your paper this year, either because they have not been assessed in the last couple of years, or

Physics Paper 2	
Topics in the Paper:	
P8	Forces
P9	Motion
P10	Forces and Motion
P12	Waves
P13	Electromagnetic

P8: Forces

1. What is the difference between scalar and vector quantities?
2. How can a vector quantity be represented?
3. What is a force?
4. What are examples of contact forces?
5. What are examples of non-contact forces?
6. What type of quantity is force?
7. What is weight?
8. What causes the force of gravity close to Earth?
9. What does the weight of an object depend on?
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11. What is the unit for weight?
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19. What is the unit for work done?
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21. What is the unit for distance?
22. How many newton-metres is 1 joule?
23. What is the relationship between the extension of an elastic object and the force applied?
24. What is the equation that links extension, force and spring constant?
25. What is the unit for spring constant?
26. What is the unit for extension?
27. What happens when a force squashes a spring?

1. Scalar quantities have magnitude only, vector quantities have magnitude and direction.
2. An arrow.
3. A push or pull that acts on an object due to the interaction with another object.
4. Friction, air resistance, tension, normal contact forces.
5. Gravitational force, electrostatic force and magnetic force.
6. Vector
7. The force acting on an object due to gravity.
8. The gravitational field around the Earth.
9. The gravitational field strength at the point where the object is at.
10. Weight = Mass x Gravitational Field Strength
11. Newtons, N
12. Kilograms, kg
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23. It is directly proportional, provided the limit of proportionality is not exceeded.
24. Force = Spring Constant x Extension
25. Newtons per metre, N/m
26. Metres, m
27. Work is done and elastic potential energy is stored in the spring.

Recall key definitions systems, processes.

Flash cards,

Look cover write check,

<u>Verbal tests</u>

P8: Forces

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Topic	P8 Forces in Balance
Qu	1. Explain you would determine the centre of mass of a piece of card. 2. Explain how you could check that the centre of mass point is accurate. 3. Explain when an object will topple over.

Cover the answers, use the hints and tips, check your answer

Repeat!

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Selection of extended response questions (4 to 6 marks) that are likely to be on your paper this year, either because they have not been assessed in the last couple of years, or because they come up most years in exams. Prepare and practice your responses to these questions.

Part 3
Required practical section. In this section you will find step by step guidance for each practical. This is followed by a page of short response questions and answers to learn for each of the practicals. There are also some extended response questions (4 to 6 marks).

Physics Paper 2	
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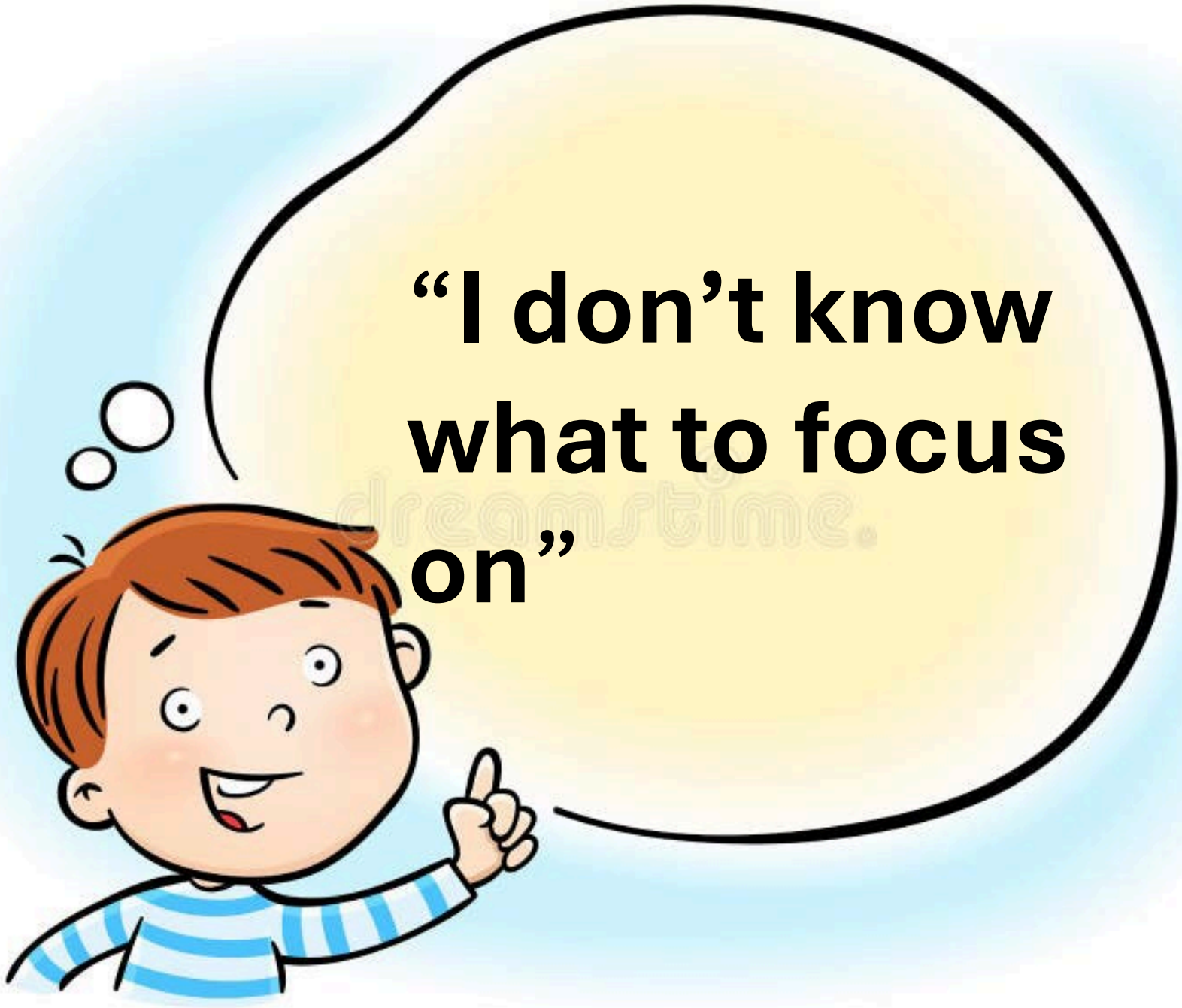
P9	Motion
P10	Forces and Motion
P12	Waves
P13	Electromagnetic Waves
P15	Electromagnetism
RP18	Force and Extension
RP19	Acceleration
RP20	Waves
RP21	Infrared Radiation


“I don’t know what to focus on”

AQA Chemistry (8462) from 2016 Topics C4.1 Atomic structure and the periodic table				
Topic	**Student Checklist**	**R**	**A**	**G**
4.1.1 A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes	State that everything is made of atoms and recall what they are			
	Describe what elements and compounds are			
	State that elements and compounds are represented by symbols; and use chemical symbols and formulae to represent elements and compounds			
	Write word equations and balanced symbol equations for chemical reactions, including using appropriate state symbols			
	HT ONLY: Write balanced half equations and ionic equations			
	Describe what a mixture is			
	Name and describe the physical processes used to separate mixtures and suggest suitable separation techniques			
	Describe how the atomic model has changed over time due to new experimental evidence, inc discovery of the atom and scattering experiments (inc the work of James Chadwick)			
	Describe the difference between the plum pudding model of the atom and the nuclear model of the atom			
	State the relative charge of protons, neutrons and electrons and describe the overall charge of an atom			
	State the relative masses of protons, neutrons and electrons and describe the distribution of mass in an atom			
	Calculate the number of protons, neutrons and electrons in an atom when given its atomic number and mass number			
	Describe isotopes as atoms of the same element with different numbers of neutrons			
	Define the term relative atomic mass and why it takes into account the abundance of isotopes of the element			
	Calculate the relative atomic mass of an element given the percentage abundance of its isotopes			
	Describe how electrons fill energy levels in atoms, and represent the electron structure of elements using diagrams and numbers			
e periodic table	Recall how the elements in the periodic table are arranged			
	Describe how elements with similar properties are placed in the periodic table			
	Explain why elements in the same group have similar properties and how to use the periodic table to predict the reactivity of elements			
	Describe the early attempts to classify elements			
	Explain the creation and attributes of Mendeleev's periodic table			
	Identify metals and non-metals on the periodic table, compare and contrast their properties			
	Explain how the atomic structure of metals and non-metals relates to their position in the periodic table			
	Describe nobel gases (group 0) and explain their lack of reactivity			
	Describe the properties of noble gases, including boiling points, predict trends down the group and			

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26. Metres, m
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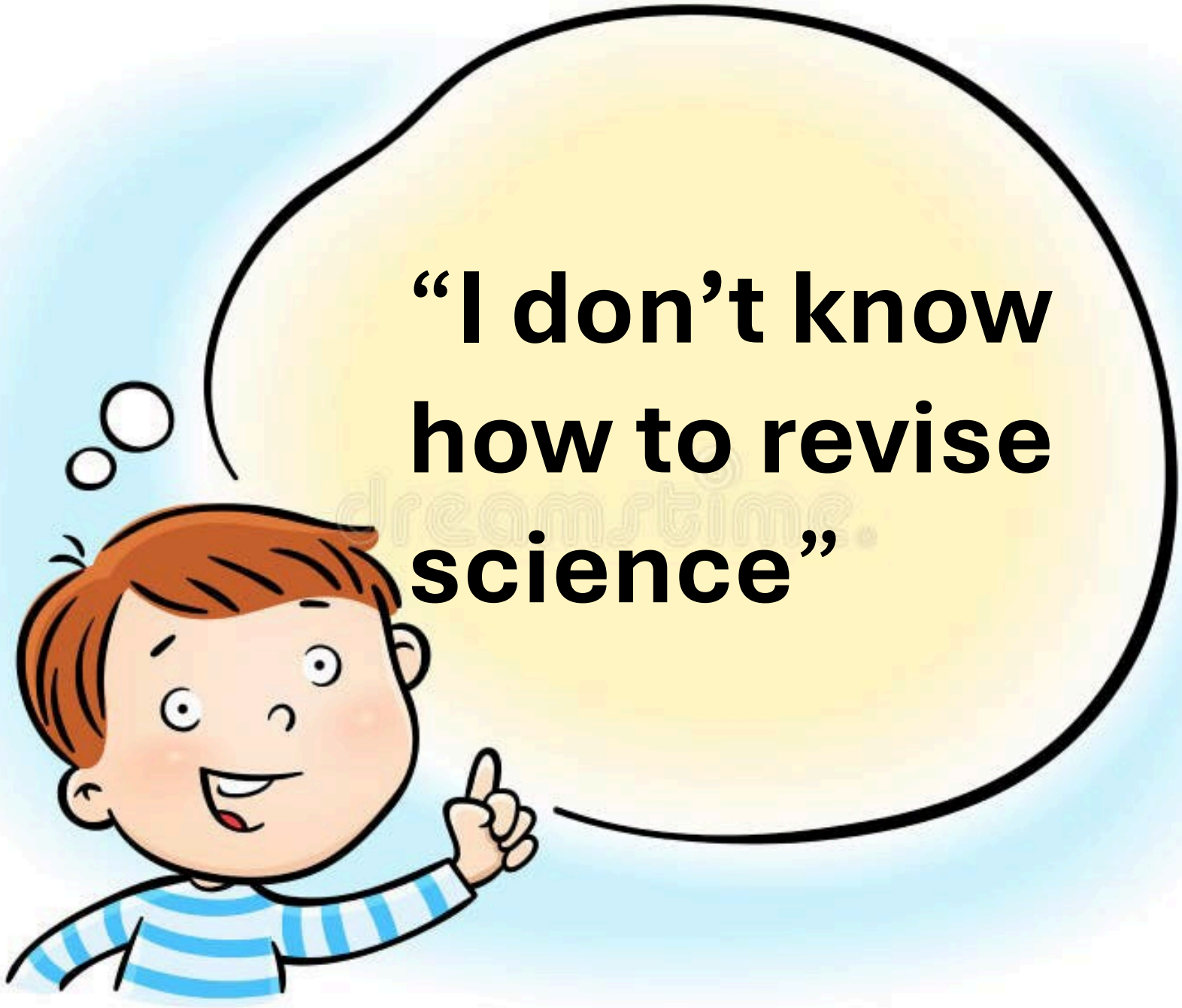
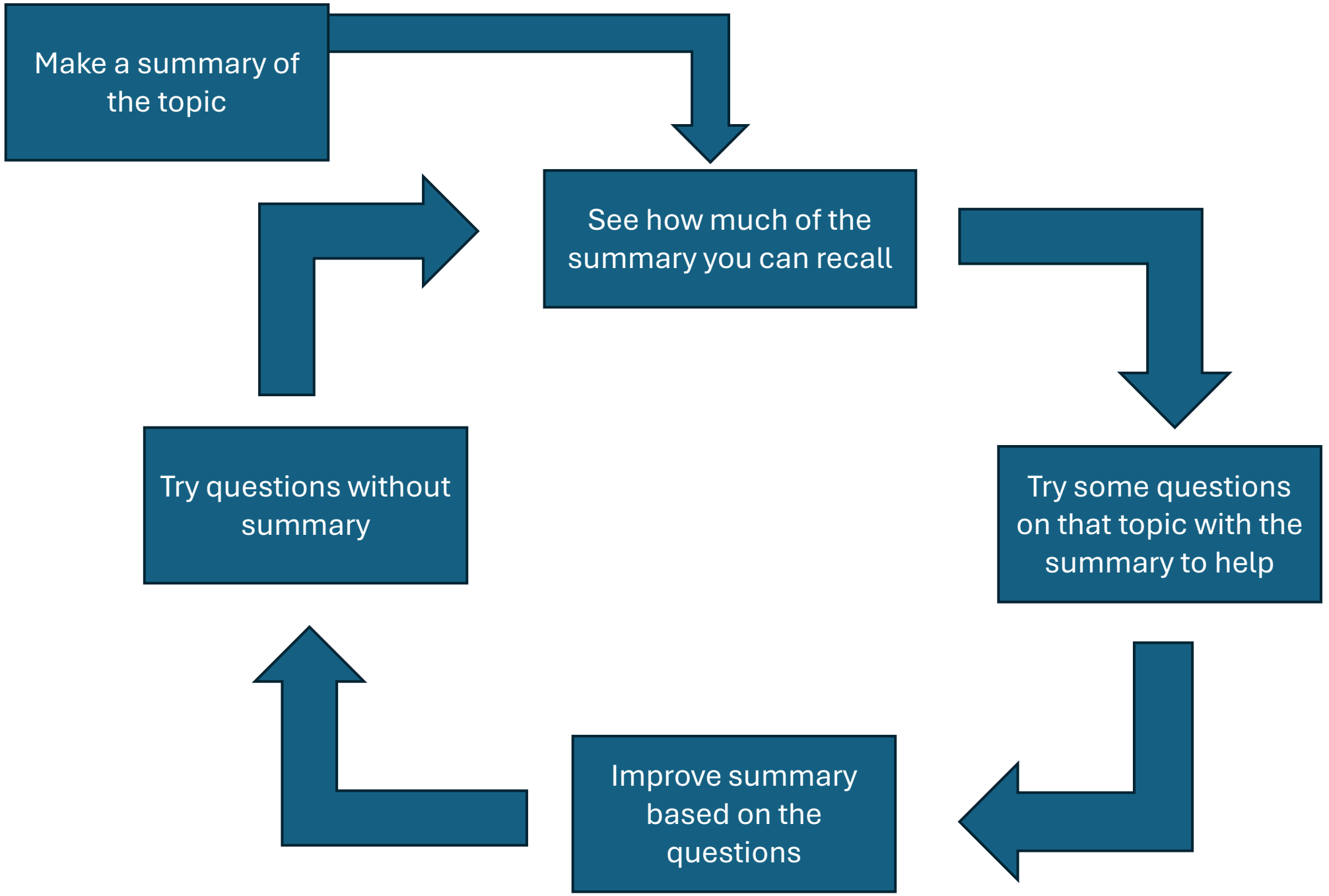
If they struggle with the topic recall question's then they should focus some revision on that area.


“I don’t know how to revise science”


Make a summary of the topic
See how much of the summary you can recall
Try some questions on that topic with the summary to help
Improve summary based on the questions
Try questions without summary

Have resources ready, an areas to revise ready. Getting out pens and paper and resources does not count as revision time

You need to be organised to be efficient with your time.

Good luck!