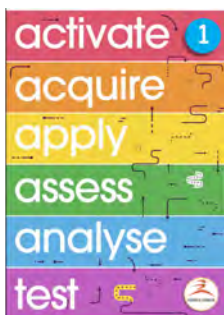


Complete Mastery sample materials



Do your students struggle to apply knowledge? Your scheme may cover all the knowledge, but it may not be helping students learn key concepts in sufficient depth. If there is too much content focus, students may not develop the thinking processes needed to apply (AO2) and analyse (AO3).

We created a 5-year plan (Blueprint) to provide time for what research says about learning for AO2 and AO3.



Complete Mastery implements the principles of Big ideas and Mastery Learning and teaches the thinking strategies low and middle ability students need to succeed. It is designed to enhance your existing year 7 scheme.

5 reasons to buy Complete Mastery



A major factor in grasping new concepts is whether students have sufficient prior understanding (not facts). Our **Pre-assessments** will show you whether there are knowledge gaps to fill, or misconceptions to address.



Many schemes explain theoretical concepts before students have had a chance to make sense of them. This encourages memorisation. Our **Explorations** start with a puzzling phenomenon, then guide students towards explaining it using a suitable concept. Students learn that concepts are explanatory tools.




To avoid 'fragile knowledge', students need to practise in a range of situations immediately a concept is introduced. Our **Practice Book** provides problems and a strategy for how to apply relevant knowledge.



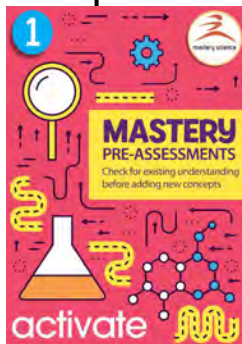
Unless higher order thinking is taught, it often only develops in higher ability students. Our **Challenges** teach a 4-step thinking strategy so that all students can develop skill in analyzing knowledge.



Formative assessment can improve teaching if the information it reveals about student understanding is accurate. Our **Diagnostic quizzes** pinpoint the aspects of each concept that students struggled with, give clear feedback, and provide a re-assessment quiz.

Big idea	Year 7 units
 Ecosystems	Interdependence Feeding relationships Competition Abiotic & biotic factors

	activate	acquire	apply	assess	analyse
Feeding relationships	<input type="checkbox"/> Understand food chains	<input type="checkbox"/> Construct a visual model to show the feeding relationships in an ecosystem	<input type="checkbox"/> Use the model to predict how changing one population affects another <input type="checkbox"/> Use the model to explain how energy is transferred	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Make a logical argument to support a claim about energy in food chains



25 Pre-assessments on Key Concepts with answers and teacher guide

Check your understanding of food chains

Here is a list of what eats what in two different habitats.

1. Use this information to write down as many food chains as you can.
 2. Label the organism in each food chain as producer, predator or prey.
 3. Which organisms are both predator and prey?

Field

Hedgehogs eat frogs Foxes eat rabbits Frogs eat slugs
 Rabbits eat grass Slugs eat grass Foxes eat hedgehogs
 Grass snakes eat frogs Hawks eat thrushes Thrushes eat slugs

Sea

Crabs eat limpets Shrimp eat zooplankton Limpets eat seaweed
 Dolphins eat tuna Mussels eat seaweed Seagulls eat starfish
 Starfish eat limpets Starfish eat mussels Tuna eat shrimp
 Zooplankton eat phytoplankton Phytoplankton are producers

4. Decide if each statement below is True or False and tick the box.

	T	F
In a food chain, the direction of the arrow is from the producer to the prey.		
The arrow in a food chain shows the direction that energy flows.		
The producers in a food chain are top-eating animals.		
The number of predators in a food chain is always greater than the number of prey.		
The last animal in a food chain eats all the other animals in the food chain.		
All the energy in a food chain comes originally from the sun.		
A predator in a food chain is always a plant or an algae.		

Interdependence > feeding relationships © mastery science 2018

Check your understanding of food chains

Here is a list of what eats what in two different habitats.

1. Use this information to write down as many food chains as you can.
2. Label the organism in each food chain as producer, predator or prey.
3. Which organisms are both predator and prey?



Field

Hedgehogs eat frogs	Foxes eat rabbits	Frogs eat slugs
Rabbits eat grass	Slugs eat grass	Foxes eat hedgehogs
Grass snakes eat frogs	Hawks eat thrushes	Thrushes eat slugs



Sea

Crabs eat limpets	Shrimp eat zooplankton	Limpets eat seaweed
Dolphins eat tuna	Mussels eat seaweed	Seagulls eat starfish
Starfish eat limpets	Starfish eat mussels	Tuna eat shrimp
Zooplankton eat phytoplankton	Phytoplankton are producers	

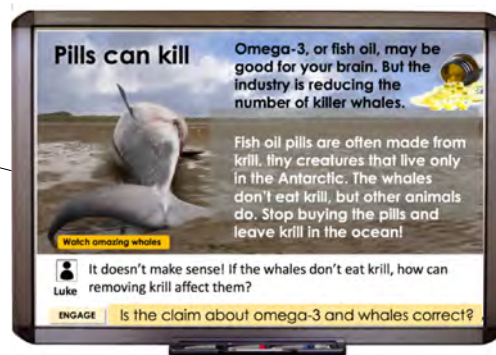
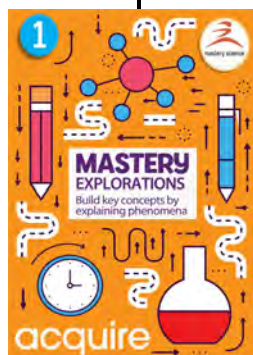
You can check if students have used arrows going in the correct direction to show the flow of energy, rather than what eats what.

4. Decide if each statements below is True or False and tick the box

	T	F
In a food chain, the direction of the arrow is from the predator to the prey		
The arrow in a food chain shows the direction that energy flows		
The producers in a food chain are the smallest animal		
The number of predators in a food chain is always greater than the number of prey		
The last animal in a food chain eats all the other animals in the food chain		
All the energy in a food chain comes originally from the sun		
A producer in a food chain is always a plant or an algae		

Big idea	Year 7 units
 Ecosystems	Interdependence Feeding relationships Competition Abiotic & biotic factors

	activate	acquire	apply	assess	analyse
Feeding relationships	<input type="checkbox"/> Understand food chains	<input type="checkbox"/> Construct a visual model to show the feeding relationships in an ecosystem	<input type="checkbox"/> Use the model to predict how changing one population affects another <input type="checkbox"/> Use the model to explain how energy is transferred	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Make a logical argument to support a claim about energy in food chains



25 **Explorations** on Key Concepts with answers and teacher guide

POWERBOARD

Pills can kill

Omega-3, or fish oil, may be good for your brain. But the industry is reducing the number of killer whales.



Fish oil pills are often made from krill, tiny creatures that live only in the Antarctic. The whales don't eat krill, but other animals do. Stop buying the pills and leave krill in the ocean!

Watch amazing whales



Luke

It doesn't make sense! If the whales don't eat krill, how can removing krill affect them?

ENGAGE

Is the claim about omega-3 and whales correct?

The claim is introduced as an engaging puzzle that students are asked to solve.

To solve the problem, students start by applying their prior knowledge. They find it is not enough, which drives the search for a more useful concept.

POWERBOARD

ENGAGE

What do you know already?

Krill are not food for whales ...



... so reducing the number of krill should not affect them



How do you show what eats what?

Activity: Check your understanding of Food Chains

The pre-assessment can be inserted here to put it in context.

Instead of being told what a food web is, students first make sense of the concept by working out their own representation, using information on the student sheet.

EXPLORE

What do you need to find out?

Krill and whales are part of more complicated system. Leopard seals eat penguins, but they also eat cod. How could you show this?



EMPEROR PENGUIN



LEOPARD SEAL



COD

Activity: Model feeding relationships

Read 'Organisms in the Antarctic'

Draw a diagram to represent all the feeding relationships

Hints:

- Show complete food chains.
- Link food chains together.
- Make sure arrows do not cross (you can use a different colour for each chain)
- You could cut out the pictures

Pills can kill

Organisms in the Antarctic

Krill forms huge swarms at the ocean's surface for protection against animals that eat them, such as penguins and cod, but also because their food, small producers called phytoplankton, live in huge numbers there.

Cod have a varied diet – they are predators of zooplankton and krill but also eat phytoplankton. Zooplankton eat phytoplankton and are eaten by cod and squid.

The life of an emperor penguin is hard. Not only do they have to survive freezing temperatures but they are also prey for killer whales and leopard seals. Leopard seals also prey on cod.

Killer whales are top predators – they eat leopard seals, penguins and squid but are not eaten by any animals.

student sheet



KILLER WHALE



EMPEROR PENGUINS



LEOPARD SEAL



SQUID



ZOOPLANKTON



KRILL



COD

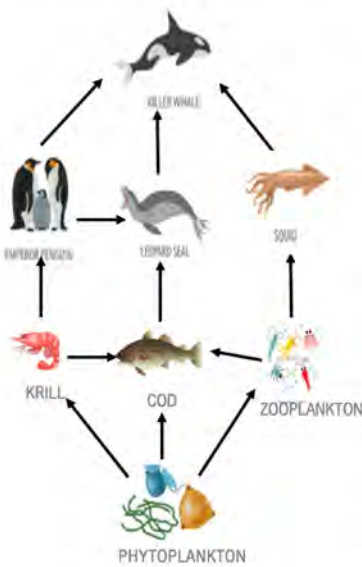


PHYTOPLANKTON

Students' food webs are reviewed and new terms are introduced.

EXPLAIN

What did you learn?



Here is a completed diagram. It is called a **food web**.

A food web shows the feeding relationships in a habitat, like the Antarctic.

A food web is also a **model** that shows what eats what.

A model is a simplified version of reality to make it easier to understand.

Models contain actors and actions – like a movie.

The actors are the organisms. The action is the energy being passed along by eating (shown by the arrows).

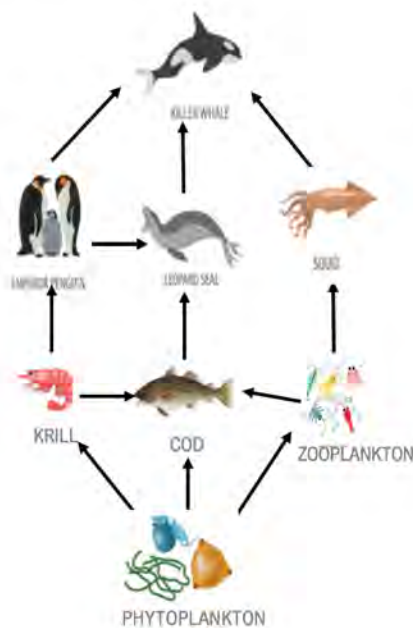
Students can now use the concept they uncovered to explain the puzzle.

POWERBOARD

EXPLAIN**Could removing krill harm whales?**

With a food web, you can find out the effect of changing the **population** of one organism on another.

Population is the number of organisms of one species.

**Example**

If lots of the phytoplankton die.
Then there's not enough food for zooplankton.
So the population of zooplankton goes down

Click to animate


**Your turn**

Work out what happens to the killer whales if huge numbers of krill are removed from the ocean to make the tablets.

Write your answer using

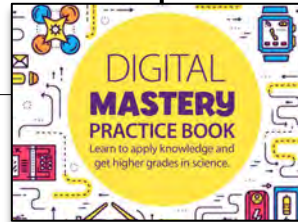
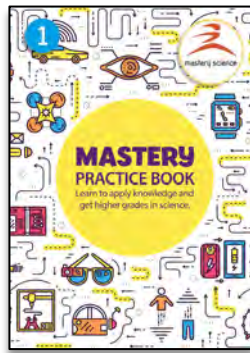
If Then So ...

The scientific reasoning process of writing an argument is explained and modelled. Then students use it with scaffolding.

Big idea	Year 7 units
 Ecosystems	Interdependence Feeding relationships Competition Abiotic & biotic factors

	activate	acquire	apply	assess	analyse
Feeding relationships	<input type="checkbox"/> Understand food chains	<input type="checkbox"/> Construct a visual model to show the feeding relationships in an ecosystem	<input type="checkbox"/> Use the model to predict how changing one population affects another <input type="checkbox"/> Use the model to explain how energy is transferred	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Make a logical argument to support a claim about energy in food chains

50 **Problem Types** on Key Concepts with hints & answers



Digital pdf version with school site license

50 Bonus Apply questions free with a set of books or digital version

Example

8.2 Change in population

The drawing shows a grassland food web. Explain how an increase in the number of voles could cause an increase in the number of hawks.

1

```

    graph TD
      grass --> voles
      grass --> rabbits
      voles --> foxes
      voles --> hawks
      rabbits --> foxes
      rabbits --> hawks
      foxes --> hawks
    
```

2 Debut

Use the food web to explain a change in your population of voles.

3 Recall

If the population of grasshoppers increases, it can affect the population of the other organisms in the food web.

4

```

    graph TD
      D --> B
      D --> E
      B --> A
      E --> A
      A --> C
    
```

5

If the population of grasshoppers increases, it can affect the population of the other organisms in the food web.

6

If the population of grasshoppers increases, it can affect the population of the other organisms in the food web.

7

If the population of grasshoppers increases, it can affect the population of the other organisms in the food web.

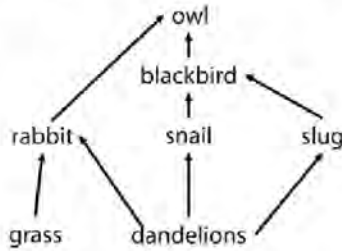
For each type of problem, a worked example breaks down the thinking process and models it step-by-step.



Example

8.2 Change in population

1



The drawing shows a grassland food web. Explain how an increase in the number of snails could cause an increase in the number of slugs.

How does a population change affect the other organisms?



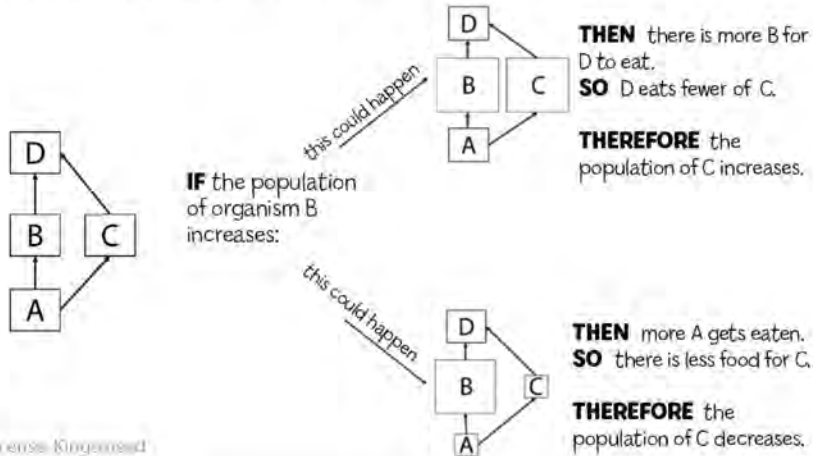
Detect

I need to use the food web to see how a change in one population affects another.



Recall

If the population of an organism changes, it can affect the populations of the other organisms in the food chain.



Solve

Why is this true?

IF the population of snails increases,
THEN the blackbirds will have more snails to eat.
SO the blackbirds will eat fewer slugs.
THEREFORE the slug population will increase.

The first question is structurally identical to the worked example but with new values. The following question are more different.

Hint p129, Answers p133

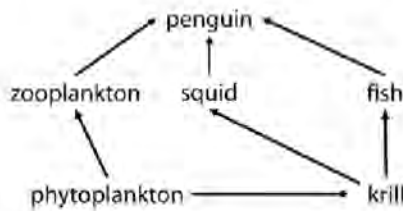


2



The diagram shows a grassland food web. Explain how an increase in the number of snails could cause the number of slugs to decrease.

3



The diagram shows a food web in the Antarctic. Explain how a decrease in the number of fish could result in the number of squid increasing.

4



The diagram shows part of a food web in a mountain forest. Explain why a decrease in the population of shrews might affect the hawks more than the mountain lions.

Use the 3-steps template with the Practice Book and Bonus Pack to teach a thinking strategy that will prepare students for AO2.

3-steps to apply knowledge

Study the Example. Cover the page and try Your turn. Write down your thinking for each step:



Detect

.....



Recall

.....



Solve

.....

Feedback

Compare your thinking in Detect, Recall and Solve with the Example's. Did you miss anything? What can you do differently to improve on this step? Write down feedback to yourself:



Detect




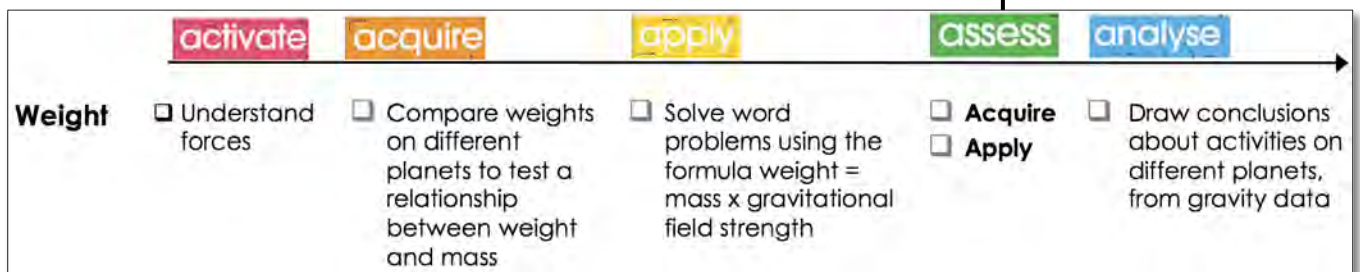
Recall



Solve

.....

Big idea	Year 7 units
 Forces	Gravity Weight Gravitational force Solar system



Gravity mastery quiz

Idea: **Mass & weight** Know

Q1 Three students argue about the meaning of weight!

It never changes

Student A

It depends on gravity

Student B

It's the amount of stuff in an object

Student C


Which student's answer is correct? **A** **B** **C**

Q2 An astronaut travels from the Earth to the Moon. On Earth her mass is 70 kg and her weight is 700 N. Which answer shows her mass and weight on the Moon?

	Mass	Weight
A	70 kg	< 700 N
B	< 70 kg	700 N
C	< 70 kg	< 700 N


Q3 Two identical rockets take off, one from Earth the other from the Moon. The force needed to leave the launch pad is called the take off thrust.

Earth



Take-off thrust: 12 million N

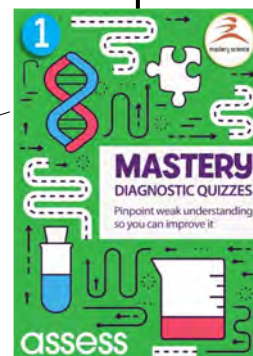
Moon



Take-off thrust: 2 million N

Why is the take-off thrust on the Moon less?

- A There is no air resistance
- B There is lower gravity
- C The rocket has less mass



1

MASTERY
DIAGNOSTIC QUIZZES

Pinpoint weak understanding so you can improve it!

assess

25 Diagnostic quizzes on Key Concepts with feedback and 25 Re-assess quizzes

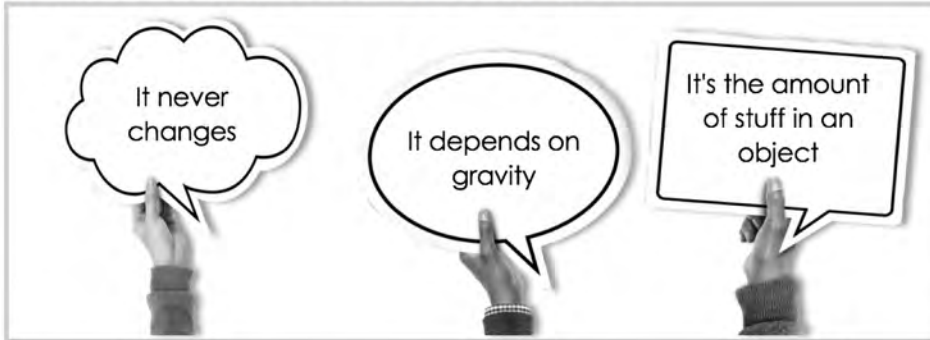
Acquire questions check understanding of AO1, to tell you whether students need more learning time.

Gravity diagnostic quiz

Weight

Acquire

Q1 Three students argue about the meaning of weight



Student A

Student B

Student C

Which student's answer is correct? **A B C**

Q2 An astronaut travels from the Earth to the Moon. On Earth her mass is 70 kg and her weight is 700 N.

Which answer shows her mass and weight on the Moon?

	Mass	Weight
A	70 kg	< 700 N
B	< 70 kg	700 N
C	< 70 kg	< 700 N

Q3 Two identical rockets take off, one from Earth the other from the Moon. The force needed to leave the launch pad is called the take off-thrust.

Earth



Take-off thrust, 12 million N

Moon



Take-off thrust, 2 million N

Why is the take-off thrust on the Moon less?

- A** There is no air resistance
- B** There is lower gravity
- C** The rocket has less mass

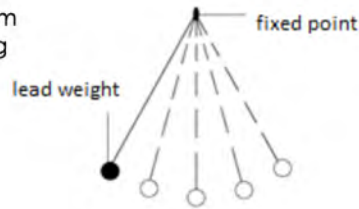
The distractors are designed to reveal misconceptions so you can address them.

Apply questions check AO2, to tell you if students need more practice with unfamiliar situations

Weight

Apply

Q8 A group of students make a pendulum by attaching a lead weight to a string which is fixed at the top.



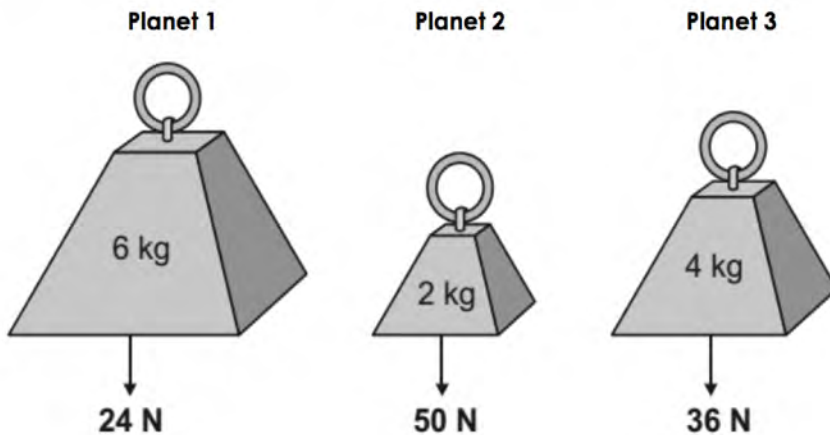
The students wonder how the pendulum will swing on the Moon, where gravity is less. Which student's prediction and explanation are correct?

Prediction

Explanation

- | | |
|---|--|
| A It will move faster | Gravity will slow the pendulum down less |
| B It will move at the same speed | The motion is not affected by gravity |
| C It will move slower | Gravity pulls the pendulum down less |

Q9 The diagram shows the weight different masses on three planets.



Which answer shows the planets in *increasing order* of gravitational field strength?

Use the formula: weight = mass x g


- | | | |
|-------------------|----------|----------|
| A Planet 1 | Planet 2 | Planet 3 |
| B Planet 1 | Planet 3 | Planet 2 |
| C Planet 2 | Planet 3 | Planet 1 |

Students can review their answers and feedback on why the right answer was right, and the wrong answer wrong.

Q	A	Review: correct answer	Review: wrong answers
1	B	Weight is gravitational force, so it depends on the strength of gravity, g.	A: It is true that Mass does not vary. But the question is about weight C: This is true. Mss is the amount of stuff, but the question is about weight
2	A	The object's mass, 70kg, does not change. Its weight on the Moon is less because g on the Moon is only 1.6 N/kg compared to 10 N/kg on Earth.	B: The mass does not decrease. The weight does not remain the same. C: The mass does not decrease.
3	B	If the rocket takes off, the take-off thrust upwards must exceed gravity downwards. On the Moon, gravity is less than on Earth.	A: It is true there is no air resistance. But this does not affect the weight of the rocket C: This is false. The rocket has the same mass on the moon

The quiz specification shows which aspects of the concept are assessed by each question, and the misconceptions in the distractors

	Weight		
	acquire		
	Q1	Q2	Q3
	Mass definition	Mass & weight change	Less weight on Moon
Correct answer	C	A	B
% Students correct			
Idea			
Mass does not vary	✓	✓	
Weight depends on mass	✓	✓	
Weight depends on g	✓	✓	✓
Calculate using formula			
Misconception			
Falling is natural			
Pressure causes gravity			✓
Mass = weight	✓	✓	✓

Big idea	Year 7 units
 Ecosystems	Interdependence Feeding relationships Competition Abiotic & biotic factors

	activate	acquire	apply	assess	analyse
Feeding relationships	<input type="checkbox"/> Understand food chains	<input type="checkbox"/> Construct a visual model to show the feeding relationships in an ecosystem	<input type="checkbox"/> Use the model to predict how changing one population affects another <input type="checkbox"/> Use the model to explain how energy is transferred	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Make a logical argument to support a claim about energy in food chains

The Reporter

Feed the world: go vegan



There is enough food in the world for the entire human population. So why are 1 billion people starving?

In a word, meat. The more meat the world eats, the fewer people we can feed.

A field of wheat can feed 100 people. But if you use that wheat to produce a cow for meat, it only feeds 10 people.

There is a simple solution – go vegan.
Plants feed more people than meat.

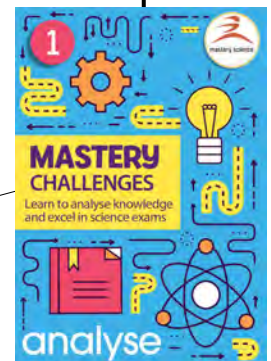
The writer has made a claim but not given evidence. Here is a food chain to show the energy involved in growing wheat and cows.

```

                graph LR
                P[Producer] --> PC[Primary consumer]
                PC --> SC[Secondary consumer]
            
```

→ Means energy moves from one organism to the organism that eats it. Some energy is used for growth. ↗ Means some energy is lost as heat to the surroundings.

Write an argument to support the claim for going vegan, the food chain and energy.



25 **Challenges** on Key Concepts with answers and teacher guide

Students have to combine knowledge and higher order thinking to interpret information in context.

The Reporter

Feed the world: go vegan



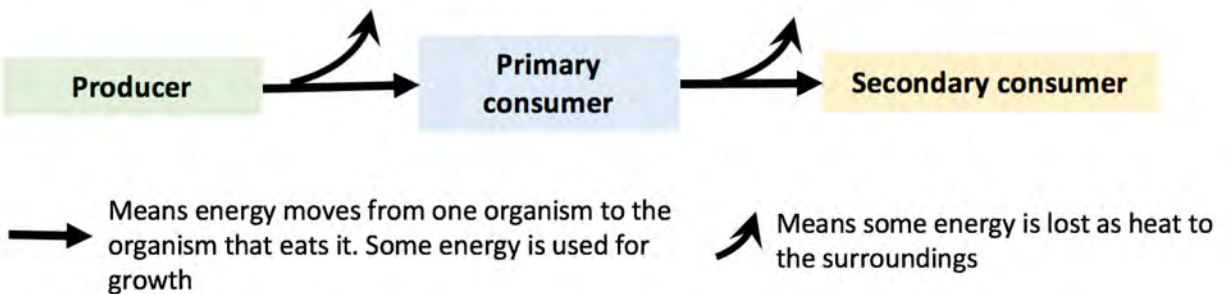
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In a word, meat. The more meat the world eats, the fewer people we can feed.

A field of wheat can feed 100 people. But if you use that wheat to produce a cow for meat, it only feeds 10 people.

There is a simple solution – go vegan.
Plants feed more people than meat.

The writer has made a claim but not given evidence.
 Here is a food chain to show the energy involved in growing wheat and cows.



Write an argument to support the claim for going vegan, the food chain and energy.

Students practise structuring their answer as an argument, with a claim, evidence and reasoning.

Use the 4-steps template with the Challenges to teach a thinking strategy that will prepare students for AO3.

4-steps to analyse knowledge



Detect

What is the question asking? What information is provided? What's missing?

Hint: Identify the claim



Recall

What concepts, facts and skills you know could be relevant?

Hint: Redraw the diagram as two food chains a) vegan diet b) meat diet. Add energy captions



Solve

Can you combine the question information and what you recalled to work it out?


Hint: Look for differences between the two food chains. How is this evidence for the claim?



Present


Can you write a well organised answer to include all the main points?

Hint: The claim is ... The information that supports it is ... It supports the claim because ...

Big idea	Year 7 units
 Forces	Gravity Weight Gravitational force Solar system


	activate	acquire	apply	assess	analyse
Weight	<input type="checkbox"/> Understand forces	<input type="checkbox"/> Weight is the force an object exerts on its support and which causes it to fall. It is mass x gravitational field strength	<input type="checkbox"/> Solve word problems using the formula $\text{weight} = \text{mass} \times \text{gravitational field strength}$	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Draw conclusions about activities on different planets, from gravity data
Gravitational force	<input type="checkbox"/> Forces	<input type="checkbox"/> Draw conclusions from data about the relationship between gravity and distance between objects.	<input type="checkbox"/> Explain effects of gravity on different planets	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Compare and contrast gravity with other forces
Solar system	<input type="checkbox"/> Earth movement	<input type="checkbox"/> Use a model to explain the apparent motion of the sun and moon, and day and night	<input type="checkbox"/> Explain why places on Earth experience different daylight or amounts of sunlight, from diagrams	<input type="checkbox"/> Acquire <input type="checkbox"/> Apply	<input type="checkbox"/> Interpret patterns in the properties of planets, from data.


Gravity unit quiz Acquire questions (AQ): accurate grasp of content


1  On Earth, an astronaut has a mass of 60kg and weighs 600 N. What would her mass and weight be on a planet with twice the gravitational field strength of Earth?

Mass on planet (kg)	Weight on planet (N)
Astronaut	

(1 mark)

2  A mobile phone has a mass of 200 g. What is its weight? (g on Earth = 10 N/kg) (1 mark)


3  A Mini rover has a weight of 2500N on Earth. Calculate: a) its mass on Mars. b) its weight on Mars. (g on Earth = 10 N/kg, g on Mars = 4 N/kg). (2 marks)

4  Here are the Olympic records for two sports.

High diving 2.3 Most twists made before hitting water	Weight lifting 150 kg Maximum mass moved by the lifter
---	--

How would these records change if each sport were played on the Moon?
Give a reason for your answers. (3 marks)

Key Concept: Weight

1 

MASTERY
SUMMATIVE QUIZZES
Measure progress in acquiring, applying and analysing

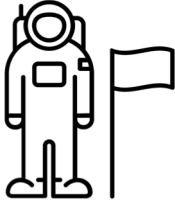
test

9 Unit Quizzes on Key Concepts, with Acquire, Apply and Analyse questions

Gravity unit quiz: weight

Acquire questions test AO1: accurate grasp of the concept

1



On Earth, an astronaut has a mass of 60kg and weighs 600 N.

What would her mass and weight be on a planet with twice the gravitational field strength of Earth?

	Mass on planet (kg)	Weight on planet (N)
Astronaut		

[1 mark]

2



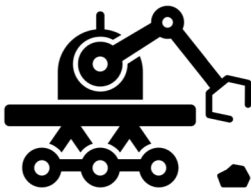
A mobile phone has a mass of 200 g. What is its weight?

g on Earth = 10 N/kg

[1 mark]

An Apply question tests AO2: use in non-taught situations

3



A Mars rover has a weight of 2500N on Earth.

Calculate a) its mass on Mars b) its weight on Mars.

g on Earth = 10 N/kg. g on Mars = 4 N/kg.

[2 marks]

An Analyse question tests AO3: Interpreting information with higher-order thinking

4



High diving

2.5

Most twists made before hitting water



Weight lifting

150 kg







Biggest mass anyone has lifted

How would these records change if each sport were played on the Moon?

Give a reason for your answers.

[3 marks]

Key Concepts in Complete Mastery

Big idea	Year 7 unit	Key Concepts
 Forces	Contact forces	Balanced & unbalanced Friction Density
	Gravity	Weight Gravitational force Solar system
 Energy	Energy transfers	Energy Wasted energy Heat & temperature
	Electric circuits	Electric current Resistance
 Matter	Substances & particles	Particle model Mixtures Solutions
	Changing substances	Chemical & physical pH scale Neutralisation
 Organisms	Cells	Cell structure Specialised cells
 Ecosystems	Interdependence	Feeding relationships Competition Abiotic & biotic factors
 Genes	Reproduction	Sexual & asexual Menstrual cycle Embryo development

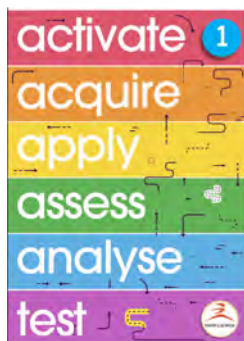
Enquiry skills in Complete Mastery

Process	Year 7-8 skills (from Blueprint)	Where it is taught
Manage variables	Choose variables to answer a scientific question	Friction
	Control variables that might affect the outcome	Solutions
Draw conclusions	Deduce patterns and relationships in data and observations	pH scale Menstrual cycle Abiotic & biotic
	Judge how well the evidence fits your conclusion	Solar system
Collect evidence	Assess the errors in your measurements	Speed
	Plan the data collection for the independent and dependent variables	Heat & temperature Resistance
Test hypotheses	Suggest a hypothesis for the observation.	Solutions Particle model
	Predict the outcome of an experiment if the hypothesis is correct	Electric current Resistance Neutralisation
	Review whether the experiment agreed with the hypothesis	Electric current Resistance

Maths skills in Complete Mastery

Process	Year 7-8 skills (from Blueprint)	Where it is taught
Algebra	Substitute values into equations, with units and symbols	Density Weight Wasted energy
Numbers	Use ratios, fractions and percentages	Weight Energy
Graphs	Reading values off graphs, interpolating and extrapolating	Heat & temperature
Data	Draw and interpret frequency tables, diagrams, charts and histograms	Energy

Complete Mastery pricing



6 teaching and assessment packs to help all students reach mastery in year 7.



From the team behind AQA's KS3 Science Syllabus

Options		
Practice Books?	Part A&B now	Part A only
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The set of Apply Practice Books or the Digital Version are optional. The free Bonus Pack is included with both.

Complete Mastery is published in two parts. This is to allow time for our development process (yes, we aim for mastery too).

Part A will be published on 24th August, and Part B on 7th December. Part A includes 4 units: Cells, Contact forces, Substances & particles and Reproduction.

Part B includes the remaining 5 units: Electric circuits, Interdependence, Changing substances and Gravity.

To help you with advance planning, we will publish on 13th July:

- Unit overviews
- For the first unit to be taught: detailed unit guide setting out lessons, and resources needed
- For the first Key Concept to be taught, the materials for all 6 components (presentations, student sheets + teacher guide)

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