



Care Package

PRIMARY 4

Curriculum Information

Welcome to 🕰 Grader Learning Centre!

Dear Parents,

Thank you for your interest in the AGrader Programme. This **Care Package** is specially compiled to showcase to you the AGrader curriculum for Primary 4.

There are **2 Parts** to this Care Package:

PART I:	i. Subject Structure SMART Sheets
Curriculum	
Information	Every subject's curriculum is carefully structured to allow AGrader's students to fully grasp school concepts. Have a close look at our Subject Structure SMART Sheets to fully understand how your child will benefit and improve with a structured learning plan!
	ii. What's So Special About AGrader's Worksheets?
	The Unique Learning Points of the AGrader Curriculum section will
	explain to you what sets the AGrader Curriculum apart from other tuition providers.
PART II:	i. Excerpts from AGrader's Worksheets (For Students)
Worksheets	
& Annotated	These are snippets of our ACTUAL worksheets, specially chosen from our
Solutions	worksheets to showcase the unique parts of our curriculum.
	(Do let your child try them out! 6)
	ii. Annotated Solutions (For Parents)
	These are the EXACT annotated solutions that ALL our teachers use to
	prepare for their lessons. They are carefully planned and created by our
	in-house Curriculum Team to help our teachers prepare as well as to ensure that every child receives accurate information.
	(You may use this to go through the answers with your child after he/she has tried the questions! ©)

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WHAT IS SO SPECIAL About the AGrader Curriculum?

The AGrader Curriculum is specially written and crafted by our in-house Curriculum Team of subject experts, each with years of experience and deep understanding of the MOE syllabus.

At AGrader, we strive to continually improve and innovate our curriculum materials and methodologies to help our students improve their grades.

Below is a summary of some of the **Unique Learning Points** that put AGrader's curriculum materials ahead of others.

English



Latest Current Affairs/News Adapted into Cloze and Comprehension Passages

Apart from acquiring the necessary skills to tackle exam components, our English Programme also focuses on equipping our students with general knowledge.



- Improve general knowledge and awareness of current affairs.
- Be more prepared for nonnarrative passages with consistent exposure to it.
- Imagine seeing the news content from just last month in your child's worksheets!

Mathematics

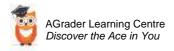


Well Structured Notes with Exercises in Increasing Difficulty to Help Students Learn in a "Step-by-Step" Approach

A carefully structured and well thought-out curriculum helps students gain confidence through a scaffolded learning approach & consistent practice.



- Improve ability to identify similar types of questions and applying the correct heuristic method to solve it.
- Reduce careless mistakes.
- Improve speed of tackling questions.



Science



Multiple-Choice & Open-Ended Questions with Tips



Coloured Cheat-Sheets & Concept Maps to Summarise Topics



Life Application Examples
Linked to Science Concepts

Learning Science is made easy with interesting study materials, a scaffolded teaching approach and consistent practices on answering techniques to score!



- Guided questions with tips help students to gain confidence faster in new topics.
- Coloured summarised study materials appeal to students and it makes revising much easier!
- Life application examples enhance students' application of science concepts to questions not commonly seen in Past-Year Papers.

Creative Writing



Skills-Based Approach



Model Compositions with "Structural Breakdown and Analysis"



Compilation of Useful Vocabulary Words & Phrases by Emotions

The key to improve in writing is to be familiar with the skills and composition structure, along with good command in English.



- "Skills-based" worksheets allow students to improve in specific areas of their writing.
- "Structure Analysis" of model compositions is actually "reverse engineering" the way other good writers write their compositions and learning the very same skills from them.
- Revision is made easier when the useful list of words to score in their writing is all compiled on a single sheet of paper!



Primary English

Oral Communication Component (15%)

Reading Aloud (1 Passage)

Stimulus-Based Conversation (1)



Weekly Spelling

Students are tested on commonly misspelt/misused words weekly to build up on their vocabulary.



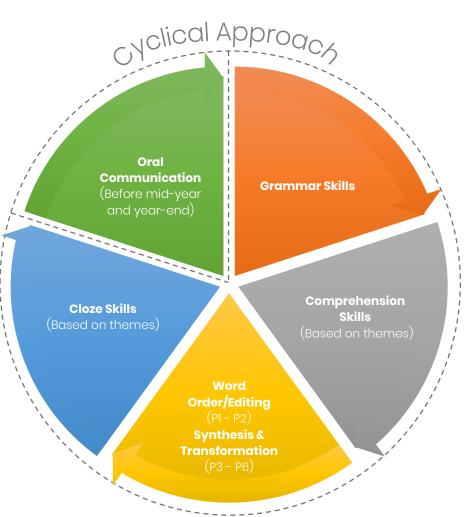
Revision Papers

Prior to the examinations, students will get to try revision papers consisting of mixed topics of what they have learnt earlier



Diagnostic Tests

Diagnostic tests are held twice a year (mid-year and end-year) to allow students to have a more complete revision of the syllabus and to practise time management.



AGrader's Primary English curriculum is delivered in a cyclical approach, which gives our students a holistic exposure to the English components tested in Paper 2, according to the latest MOE syllabus.

Worksheets Specially Designed According to Exam Format in Paper 2 (47.5%)

Booklet A:

MCQs in Grammar, Vocabulary, Cloze, Visual Text

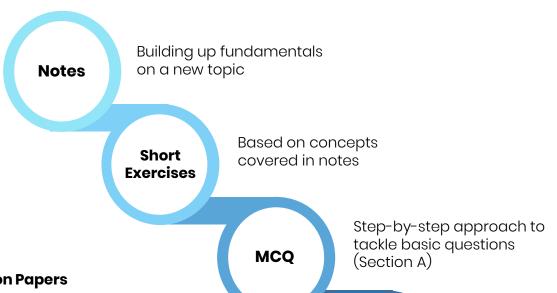
Booklet B:

Open-ended in Editing, Cloze, Synthesis and Transformation, Comprehension





Primary Mathematics



AGrader's Primary Mathematics curriculum is specially designed using a step-by-step approach structure, according to the latest MOE syllabus.

> **Worksheets Specially Designed According to Exam Format**

Section A: Multiple Choice Questions

Section B: Short-Answer Questions

Section C: Problem-Sums

Revision Papers

Prior to the examinations, students will get to try revision papers consisting of mixed topics of what they have learnt earlier



Diagnostic tests are held twice a year (mid-year and end-year) to allow students to have a more complete revision of the syllabus and to practise time management.

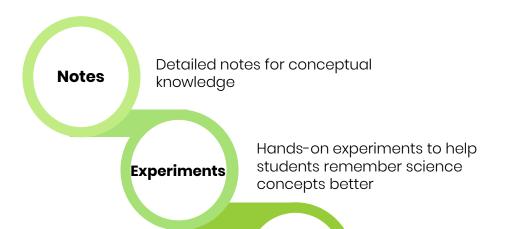
Problem sums that test the similar heuristic will be bundled together for **Problem** the students to practise (Section C) Sums

> **Topical Review**

Mixture of questions from both sections to round up the topic (Section A. B and C)



Primary Science



AGrader's Primary Science curriculum is specially designed using a step-by-step approach structure, according to the latest MOE syllabus.

Worksheets Specially Designed According to Exam Format

Section A: Multiple Choice Questions

Section B: Free Response Questions



Revision Papers

Prior to the examinations, students will get to try revision papers consisting of mixed topics of what they have learnt earlier



Diagnostic Tests

Diagnostic tests are held twice a year (mid-year and end-year) to allow students to have a more complete revision of the syllabus and to practise time management.



Scaffold students' learning with tips

MCQ + Free Response (W/O Tips) Allow students to apply what they have learnt

Topical Review Mixture of questions from both sections to round up the topic





Primary Creative Writing



Lesson

Dictation

Discussion of Question

Brainstorming for ideas

Writing Skills Revision

(i.e. introduction)

Lesson 2

Planning for writing using word bank

Writing class)

Model composition

Review & corrections

Diagnostic Tests

Diagnostic tests are held twice a year (mid-year and endyear) to allow students to have a more complete revision of the syllabus and to practise time management.

AGrader's Primary Creative Writing curriculum is specially designed using a thematic approach, allowing students to be exposed to a variety of themes in writing

Specially Designed for Paper 1 (27.5%)

Situational Writing (15 Marks)

Continuous Writing (40 Marks)





Care Package

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Worksheets & Annotated Solutions
(For Students) (For Parents)

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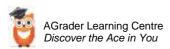
P4 English

Grammar Skills

Synthesis and Transformation

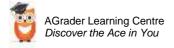
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Homework:	Corrections:
Page Number(s)	Page Number(s)
	Please correct and return
Remarks:	



Relative Pronouns in Synthesis & Transformation

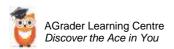
What or who they refer to	Relative pronouns	Examples
	who	This is the girl who sits beside me
		in class.
		This is the girl whom I sit beside in
Pofor to poople	whom	class. (Note: The sentence follows
Refer to people		the format: Person/people + whom
		+ person/people)
	whose	Sarah, whose sister is a prefect,
		sits beside me in class.
	which	The book which is about outer
Refer to things		space belongs to my brother.
ixelel to things	that	The book that is about outer space
		belongs to my brother.
Refer to places	where	This is the place where our music
Refer to places	WHELE	lessons are held.



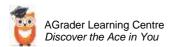
Who	Examples
- Used to link two sentences	Bill Gates is one of the richest men in the world. He gives a lot of money to charity.
- To give additional information about a person or people mentioned earlier	Bill Gates, who is one of the richest men in the world, gives a lot of money to charity.2) Tom likes soccer. He is my best friend.
- When used as a relative pronoun,	Tom, who is my best friend, likes soccer.
who always comes after the person or people it refers to	Note: Sometimes, we put commas within the combined sentences. However, we put commas only when we are giving additional information
- Use a verb after 'who'	that is not essential to our understanding of the person or the people being described.
	If we remove the clause between the commas, the remaining words should form a full sentence. E.g. Tom , <u>who</u> is my best friend, likes soccer. > Tom likes soccer.
	This is applicable to all other pronouns such as whom, which, whose and where.
	Remember to insert a pair of commas or none at all. <u>Do not use only one comma.</u>

For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

1	Rayne pays little attention in class. He is easily distracted.
١.	readily distracted.
Rayne, who is easily distracted,	
	rayre, wie is easily distracted,



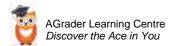
2.	Kathy is different from her sister. Kathy is kind.		
		_ who	
3.	I like Mr Evans. He is my Biology teacher.		
		_ who	
4.	Oliver is going to visit his niece. His niece keeps a lot of ornamental fish Malaysia.	in	
		_ who	
5.	John bought the tomato soup. He is my classmate.		
		_ who	



Whose		Examples
-	To show possession	1) The man is extremely outgoing. His wife is a
		famous actress.
-	Whose can be used to	
	refer to people or things.	The man whose wife is a famous actress is
		extremely outgoing.
-	Whose is always put after	
	the person or people it	
	refers to.	2) I bought the cat. The tail of the cat is very long.
-	Look out for the noun	I bought the cat <u>whose</u> tail is very long .
	which carries the	
	apostrophe 's'	

For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

1.	The woman runs a hair salon. The woman's daughter is a nurse.
	whose daughter is a
2.	Timothy was very sad. His belongings had been destroyed in the fire.
	whose
3.	The lady is a popular actress and has a dog. It came in first in a dog show.
	whose

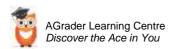


4.	I love listening to the song. The singer of the song is a Brazilian.	
		whose
		

Which	Examples
- When which is used to	1) The building will be preserved. The building is
refer to non-humans,	at least seventy years old.
which always comes after	
the animals or things it	The building, which is at least seventy years
refers to.	old, will be preserved.
 Additional information about the animals or things comes after which. 	2) I love the cat. It drinks a lot of milk.
	I love the cat <u>which</u> drinks a lot of milk.

For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

1.	library.			
	which was found			
2.	My wallet was stolen. I bought it in China.			
	which			





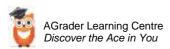
P4 Mathematics

Topic: Fractions

Date:			

Name: _____

Homework:	Corrections:
Page Number(s)	Page Number(s)
	Please correct and return
Remarks:	





Discover the Ace in You

Fraction of a Set

Fractions such as $\frac{2}{3}$ can also be represented as 2 out of 3 equal parts.

- 2 out of 3 apples are red.
 - $\frac{2}{3}$ of the apples are red.

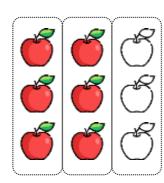






• 2 out of 3 groups are red.

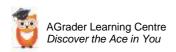
 $\frac{2}{3}$ of the apples are red.



 $\frac{2}{3}$ of a set means 2 out of 3 of the equal groups.

From the diagram above, 6 out of 9 apples are red.

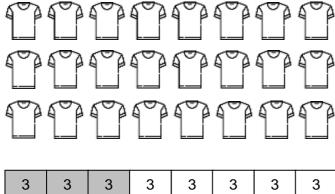
$$\frac{6}{9} = \frac{2}{3}$$



Example 1

Jess bought 24 shirts. She gave away $\frac{3}{8}$ of the shirts. How many shirts did she give away?

Solution:



3	3	3	3	3	



Put the shirts into 8 equal groups.

Each group represents $\frac{1}{8}$ of the shirts.

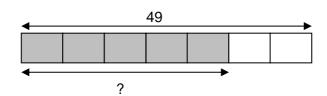
8 units = 24
1 unit = 24
$$\div$$
 8
= 3
3 units = 3 \times 3
= 9

Jess gave away 9 shirts.

Example 2

Find the value of $\frac{5}{7}$ of 49.

Solution:



7 units = 49
1 unit = 49
$$\div$$
 9
= 7
5 units = 7 \times 5
= 35

So, $\frac{5}{7}$ of 49 is **35**.



1) There were 36 cupcakes in a box at first. $\frac{1}{3}$ of them were chocolate cupcakes. The rest were strawberry cupcakes. Mother ate 3 of the strawberry cupcakes. How many strawberry cupcakes were left?

Concept 2: Part-whole Concept

Example

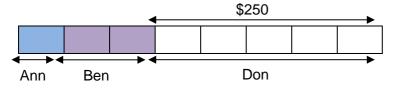
A sum of money was shared among Ann, Ben and Don.

Ann received $\frac{1}{8}$ of the money. Ben received $\frac{1}{4}$ of the money.

Don received the remaining \$250. How much was the sum of money?

Solution:

$$\frac{1}{4} = \frac{2}{8}$$
 (Ben)



$$5 \text{ units} = 250$$

1 unit =
$$250 \div 5$$

$$8 \text{ units} = 50 \times 8$$

$$=400$$

Alternatively, we can look for the fraction of money that Don received.

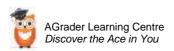
$$\frac{1}{8} + \frac{1}{4} = \frac{1+2}{8}$$

$$1 - \frac{3}{8} = \frac{5}{8}$$
 (Don)



The sum of money was \$400.

1) Miss Poh had some money. She spent $\frac{1}{4}$ of it on a purse and $\frac{1}{8}$ of it on a shawl. She had \$120 left. How much money did she have at first?
Ans:
2) There were 336 people at a carnival. $\frac{1}{3}$ of the people were men, $\frac{1}{4}$ of them were women and the rest were children.
(a) What fraction of the people at the carnival were children?(b) If each child ticket cost \$12, how much money was collected from the sale of the child tickets?
Ans: (a)
(b)



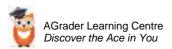


P4 Science

Topic: Heat and Temperature

Name:	 		
Date: _			

Homework:	Corrections:	
Page Number(s)	Page Number(s)	
	Please correct and return	
Remarks:		











Learning objectives- you should be able to:

- ✓ List some common sources of heat.
- ✓ State that the temperature of an object is a measurement of its degree of hotness or coldness.
- ✓ Differentiate between heat and temperature:
 - heat is a form of energy
 - temperature is a measurement of the degree of hotness or coldness of an object
- ✓ Show an understanding that heat flows from a hotter to a colder object until both reach the same temperature.
- ✓ Relate the change in temperature of an object to the gain or loss of heat by the object.

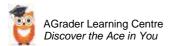
What is Heat Energy?

•	Heat is a	form of	е	

- It makes things hot and changes the temperature of things.
- We cannot see heat but we can feel it.
- Heat can cause changes in the state of matter.
 e.g. Ice to water

Sources of Heat

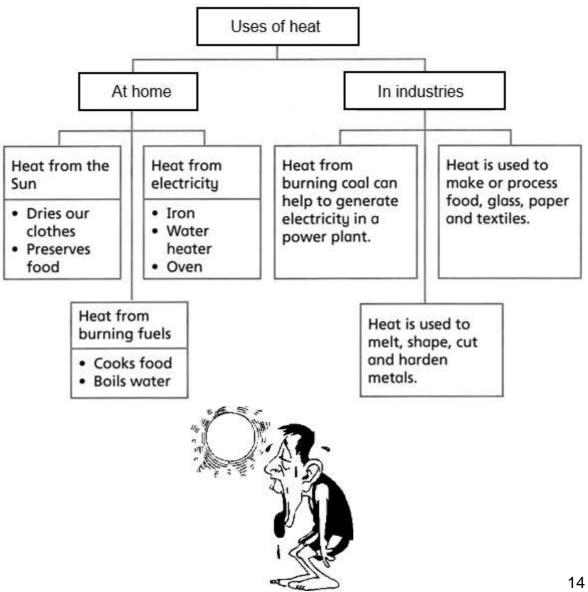
- Anything that gives off heat is a source of heat.
- The S_____ is our main source of heat. It provides the Earth with warmth so that life can survive. The Sun's energy is called solar energy.
- Man makes use of Sun's heat to dry wet clothes and to preserve food.



• Heat can also be produced by:

(a)	Rtwo things together (from friction)
	leat is produced when two things are rubbed together due to friction.
(b)	B fuels such as wood, charcoal, kerosene and gas. They burn to give off heat and light.
(c)	
	a metal wire gets hot when electricity passes through it. Man has learnt

- to use electricity to produce heat in electrical appliances such as ovens, irons, hair dryers, kettles and rice cookers.
- Most light sources are also heat sources. For example, candle flames, lamps, light bulbs, etc.
- We use heat in many ways, both at home and in the industries as shown:





Primary 4 Science Topic: Heat and Temperature



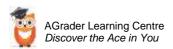
Learning objectives:

✓ To show the heat transfer between hands and water.

Process Skills:

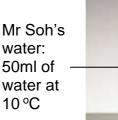
✓ Observing and inferring

Procedure:	 Fill up a basin with cold water, one with warm water and one with tap water. Place right hand in warm water and left hand in cold water. After 10 seconds, place both hands in tap water. Observe the feeling.
Apparatus:	3 basins
	Towel (in case of spillage)
	Tower (in eace of spinage)
Outcomo	The right hand should feel cold while the left hand should feel warm
Outcome:	The right hand should feel cold while the left hand should feel warm.
Explanation:	If the skin comes in contact with warm water first, it will g
	from the warm water and becomes warmer. When it is being
	transferred to the tap water, the warm hand I to the tap
	water thus felt colder. If the skin comes in contact with cold water first,
	it will I to the cold water and becomes colder. When it
	is being transferred to the tap water, the cold hand g from
	the tap water thus felt warmer.
	the tap water that foll wanner.
Conclusion:	



For the following questions, choose the correct option and write its number in the bracket.

1. In a restaurant, Mr Soh ordered a cup of cold water while Mrs Soh ordered a cup of warm water.





Mrs Soh's water: 50ml of water at 60 °C

(

What happened to the water if Mr and Mrs Soh both left their water untouched on the table for 20min?

(1)	Gained heat	Lost heat	Temperature
Cold water		✓	Decreased
Warm water		✓	Decreased

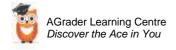
(2)	Gained heat	Lost heat	Temperature
Cold water	✓		Increased
Warm water	✓		Increased

(3)	Gained heat	Lost heat	Temperature
Cold water	✓		Increased
Warm water		✓	Decreased

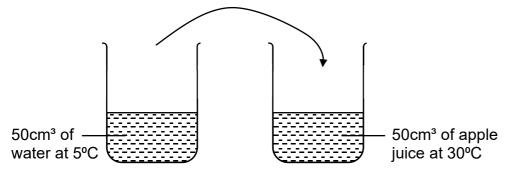
(4)	Gained heat	Lost heat	Temperature
Cold water		✓	Decreased
Warm water	✓		Increased

Concept:

Heat flows from a region of higher temperature to a region of lower temperature.



2. The diagram below shows two beakers, each containing 50cm³ of different liquids at different temperatures.

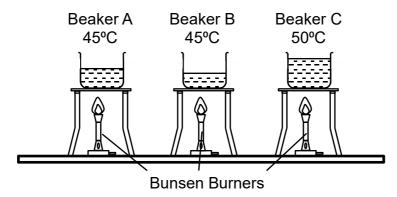


Which of the following statements about the final temperature of both liquids is correct after water is added to apple juice completely.

- (1) The final temperature will decrease and then increase.
- (2) Both liquids have the final temperature of 35°C.
- (3) The final temperature will decrease to 5°C and then to the temperature of the surroundings.
- (4) The final temperature will decrease to a temperature higher than 5°C but lower than 30°C.

()

3. Three glass beakers of similar sizes are filled with different amounts of water heated to different temperatures.



Arrange the beakers in order, starting with the one with the most heat.

- (1) A, C, B
- (2) C, A, B
- (3) B, A, C
- (4) C, B, A

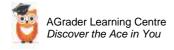
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Concept:

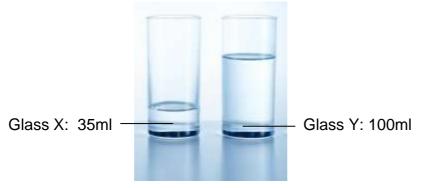
The water gained heat from the apple juice and apple juice while the apple juice lost heat to the water.

Concept:

The amount of heat energy depends on the amount of water and the temperature of water.



4. Mother left two glasses of boiling water on the table as shown below.



(a)	Assuming that no heat was lost to the cups or to the
	surroundings, what was the temperature of the liquid in
	each glass? [1]

Glass X:			
0 1 1/			
Glass Y:	 	 	

- (b) In which glass did the liquid contain more heat energy? [1]

(c) Explain your answer in (b). [2]

(d) State one variable that must be kept the same in order to conduct a fair test. [1]

a) Concept:

Pure water boils at a fixed temperature.

b) Concept:

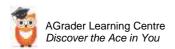
Amount of heat energy depends on the volume of water and temperature of water.

c) Keywords:

Greater volume; more heat energy

d) Hint:

Specific words must be used (e.g. size of containers)



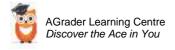


Primary 4 Science Topic: Heat and Temperature



Analysing common <u>process-skill</u> questions

Common questions	How to tackle the question
Conclude from experiment	It answers the aim of the experiment, by stating a positive relationship or may require
Question	an inference from the results.
Controlled variable	Variables are kept constant so that they do not influence the effect of the independent
Question	variable on the dependent variable
Questions with "why", "explain"	Part 1: state what you observe.
and "give a reason" without results	Part 2: apply conceptual knowledge.
Questions	Eg: A stone is a solid (observe) and solid has definite volume (conceptual knowledge)





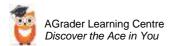
P4 Creative Writing

Theme: A Shopping Trip

Homework:	Correctio	ons:
Page Number(s)	Page Nun	nber(s) Please correct and return
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Name: _____





Remarks:

Date:

A Shopping Trip

Write a story based on the situation in the picture below. Your story should be <u>at least 120 words</u> long.

Your composition should be based on one or more of these pictures.







You may make use of the following points in your story:

- Why did the main character go shopping?
- What happened during the shopping trip? Was there anything unusual?

You may also include other relevant points.

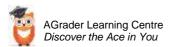
Brainstorming: 5W1H

WHO?

	WHO was involved?		
Name / Role in the Story			
Character Traits			



WHAT? (What happened during the WHY? (Why did the character go shopping trip?) shopping? If there was an argument, why did it happen?) **A SHOPPING TRIP** WHERE? / WHEN? (Where and when **HOW?** (How did the characters feel?) did the incident happen?)

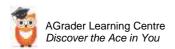


Vocabulary

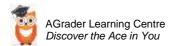
Word/Phrase	Meaning	
fancied	or	something
garment	a piece of	
generous	than usual or	what is needed
hordes	groups	of people
luring		-
opportunity		-
ripping	making ai	n something
rummaging	un	tidily
seams	a line where two pieces of fabric are	
thronged	flocked or be present in	numbers

Model CompositionFill in the blanks in the following passage with the correct words.

The Great Singapore Sale was here again. Retail	Introduction: The
outlets across the country took the (1) to	story begins with a description of the
advertise special offers to attract customers. City	place where the conflict takes place.
Department Store was no exception. The store had	commertance place.
organised a big sale, (2) customers with	
(3) discounts on consumer electronics,	
household items and apparel.	
Bargain hunters (4) City	
Department Store, eager to grab the best buys . Among the	Rising Action:



sea of shoppers in the store was Mrs Jenny, clad in a	Characterisation – From the paragraph,	
branded leather jacket and pants despite the hot weather.	how would you describe Mrs Jenny?	
Being fashion-conscious and on a budget, Mrs Jenny was		
hoping to take advantage of the reduced prices to update		
her wardrobe. At the ladies' wear department, there was a		
huge pile of quality pieces going at seventy percent discount.		
Mrs Jenny squeezed and pushed through the crowd and		
joined in the (5) of other ladies eagerly		
(6) through the assortment of clothes.		
Mrs Jenny spotted a dark blue blazer that she		
(7) She pulled the blazer by the sleeve	Climax:	
from the pile of clothing. However, some forceful tugging	This paragraph is a description of how	
from the other side made her stop in her tracks and she	the conflict started.	
uttered a growl of annoyance when she saw the lady	"uttered a growl of	
beside her gripping the other sleeve of the same	annoyance" – Show not tell - this	
(8)	shows that Mrs Jenny was irritated.	
	ociniy was initated.	
"This belongs to me!" Mrs Jenny demanded, but the	Meaningful dialogue	
lady insisted that she was the one who had taken it first. With	to show Mrs Jenny's demanding	
neither of the women willing to give in, a fierce tug of war	character.	
ensued. Both sides pulled with so much force that the	Falling Action: The blazer was torn	
(9) attaching the sleeves to the blazer	while the argument	
started (10) Finally, one of the sleeves	ensued.	
came off entirely. Both ladies gasped in astonishment and	"gasped in	



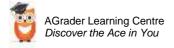
immediately dropped the garment, pretending that nothing had happened. Fortunately for them, the people around them had been too engrossed in shopping to notice their childish quarrel.

They were shocked as their actions has caused the blazer to be torn.

Now that neither of them could have the blazer, they walked away hurriedly before the sales assistant could discover that they had damaged the garment. They did not dare linger a moment longer – not even to inspect the other goods on sale. "Great Singapore Sales, not so great anymore," grumbled Mrs Jenny as she decided to head home for the day.

Conclusion:

Both parties walked away from the scene now that none of them wished to have the torn blazer.



Word Bank

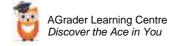
Phrases to describe a busy/crowded place (using the 5 senses)

- the cold air swept across my face, leaving a refreshing sensation
- teeming with shoppers ceaselessly thronging the passages between the shops
- bustling with activity
- people in colourful attire, bright lights from the stores, balloons hanging
 from the ceiling and shiny tinsel all added to the Christmas atmosphere
- music blaring from the stores
- non-stop chatter of crowds was deafening
- parents with small children tagging along / pushing strollers with young
 babies who had fallen asleep peacefully inside
- place was packed like sardines and there was hardly any space to move

Phrases related to a quarrel

- steam was practically coming out of her ears
- tempers flared and voices blared
- vehement argument
- balled his hands into tight, seething fists
- uttered a growl of annoyance
- red with fury
- in a fit of anger







P4 English

Grammar Skills

Synthesis and Transformation

Name:			
<u> </u>			
Date:			

Corrections:
Page Number(s)
Please correct and return

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Relative Pronouns in Synthesis & Transformation

What or who they refer to	Relative pronouns	Examples	
	who	This is the girl who sits beside me	
	WIIO	in class.	
		This is the girl whom I sit beside in	
Defer to poorle	whom	class. (Note: The sentence follows	
Refer to people		the format: Person/people + whom	
		+ person/people)	
	whose	Sarah, whose sister is a prefect,	
	wnose	sits beside me in class.	
	which	The book which is about outer	
Defer to things	WIICH	space belongs to my brother.	
Refer to things	that The book that is about outer	The book that is about outer space	
		belongs to my brother.	
Pofor to places	where	This is the place where our music	
Refer to places	wriere	lessons are held.	

Who	Examples
- Used to link two sentences	Bill Gates is one of the richest men in the world. He gives a lot of money to charity.
To give additional information about a person or people mentioned earlier	Bill Gates, who is one of the richest men in the world, gives a lot of money to charity. 2) Tom likes soccer. He is my best friend.
- When used as a relative pronoun, who always comes after the person or people it refers to - Use a verb after 'who'	Tom, who is my best friend, likes soccer. Note: Sometimes, we put commas within the combined sentences. However, we put commas only when we are giving additional information that is not essential to our understanding of the person or the people being described. If we remove the clause between the commas, the remaining words should form a full sentence. E.g. Tom, who is my best friend, likes soccer. → Tom likes soccer. This is applicable to all other pronouns such as whom, which, whose and where. Remember to insert a pair of commas or none at all. Do not use only one comma.

Exercise 1
For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

1.	Rayn	e pays little attention in class.	He is easily distracted.
		Note: Use a verb after 'who'	
*	Rayn	e who is easily distracted	navs little attention in class

	Kathy,	who
	is kind, is different from her sister.	
3.	I like Mr Evans. He is my Biology teacher.	
	I like Mr Evans	who
	is my Biology teacher.	
	, ,	
4.	Oliver is going to visit his niece. His niece keeps a lot of ornamental fish i Malaysia.	n
	Oliver is going to visit his niece	who
	keeps a lot of ornamental fish in Malaysia.	
5.	John bought the tomato soup. He is my classmate.	
	John,	who
	is my classmate, bought the tomato soup.	

2. Kathy is different from her sister. Kathy is kind.





3

Whose		Examples
-	To show possession	1) The man is extremely outgoing. His wife is a
		famous actress.
-	Whose can be used to	
	refer to people or things.	The man whose wife is a famous actress is
		extremely outgoing.
- Whose is always put after		
the person or people it		
	refers to.	2) I bought the cat . The tail of the cat is very long.
-	Look out for the noun	I bought the cat whose tail is very long.
	which carries the	
	apostrophe 's'	

Exercise 2 For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

1. The		n. The woman's daughter is	a nurse.
	be	longs to	
	4		
	The woman,	whose daughter is a _	nurse. runs a
	hair salon.		

2. Timothy was very sad. His belongings had been destroyed in the fire.

Timothy,	whose	belongings had been destroyed
in the fire, was very sad.		

3. The lady is a popular actress and has a dog. It came in first in a dog show.

The lady,	_ whose
dog came in first in a dog show, is a popular actress.	

5



I love listening to			

I love listening to the song	whose
singer is a Brazilian.	

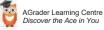
W	Which		amples
-	When which is used to	1)	The building will be preserved. The building is
	refer to non-humans,		at least seventy years old.
	which always comes after		
	the animals or things it		The building, which is at least seventy years
	refers to.		old, will be preserved.
-	Additional information about the animals or things comes after <i>which</i> .	2)	I love the cat. It drinks a lot of milk.
			I love the cat which drinks a lot of milk.

For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

/ -	The letter was written b library.	y the mayor. It was found in the	ne storeroom of the					
•	The letter,	which was found _	in the storeroom of					
	the library, was v	ritten by the mayor.						
	Additional information about the object after 'which'							

2. My wallet was stolen. I bought it in China.

My wallet,	which
I bought in China, was stolen.	





Notes

Fraction of a Set

Fractions such as $\frac{2}{3}$ can also be represented as 2 out of 3 equal parts.

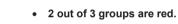
•	2	out	of	3	an	nles	are	red.
•	_	out	O.	J	ap	pica	aıc	ıcu.

 $\frac{2}{3}$ of the apples are red.

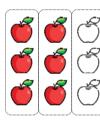








 $\frac{2}{3}$ of the apples are red.



 $\frac{2}{3}$ of a set means 2 out of 3 of the equal groups.

From the diagram above, 6 out of 9 apples are red.



6	=	2
9		3



P4 Mathematics

Topic: Fractions

Name:			
Date:			

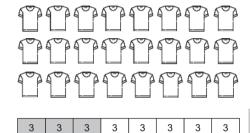
Homework:	Corrections:
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Example 1

Jess bought 24 shirts. She gave away $\frac{3}{9}$ of the shirts. How many shirts did she give away?

Solution:





9

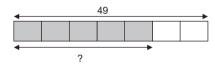
8 units = 24
1 unit = 24
$$\div$$
 8
= 3
3 units = 3 \times 3
= 9

Jess gave away 9 shirts.

Example 2

Find the value of $\frac{5}{2}$ of 49.

Solution:



7 units = 49
1 unit = 49 ÷ 9
= 7
5 units =
$$7 \times 5$$

= 35

So, $\frac{5}{7}$ of 49 is **35**.





Exercise

There were 36 cupcakes in a box at first. a of them were chocolate cupcakes. The rest were strawberry cupcakes. Mother ate 3 of the strawberry cupcakes. How many strawberry cupcakes were left?

3 units = 36

1 unit = 36
$$\div$$
 3

= 12 \rightarrow Chocolate

Strawberry (At first) \rightarrow 36 - 12

= 24

Left \rightarrow 24 - 3

= 21

Ans: 21

Concept 2: Part-whole Concept

Example

A sum of money was shared among Ann, Ben and Don.

Ann received $\frac{1}{9}$ of the money. Ben received $\frac{1}{4}$ of the money.

Don received the remaining \$250. How much was the sum of money?

Solution:

Ann

Ben

Alternatively, we can look for the fraction of money that Don received.

$$\frac{1}{8} + \frac{1}{4} = \frac{1+2}{8}$$

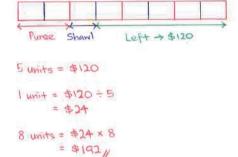
$$= \frac{3}{8}$$

$$1 - \frac{3}{9} = \frac{5}{9} \text{ (Don)}$$

The sum of money was \$400.



4) Miss Poh had some money. She spent of it on a purse and for it on a shawl. She had \$120 left. How much money did she have at first?



Ans: \$192

11

7) There were 336 people at a carnival.

of the people were men, of them were women and the rest were children.

- (a) What fraction of the people at the carnival were children?
- (b) If each child ticket cost \$12, how much money was collected from the sale of the child tickets?

(a) Children
$$\rightarrow 1 - \frac{3}{12}$$

= $\frac{5}{12}$

$$1 \text{ unit} = 336 \div 12$$

= 28

$$5 \text{ units} = 28 \times 5 = 140$$

(b) Money (child tickets)
$$\rightarrow$$
 140 x \$12 Ans: (a) $\frac{5}{12}$ = \$1680/1 (b) \$1680

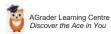


P4 Science

Topic: Heat and Temperature

Name:			
_			
Date:			

Homework:	Corrections:
Page Number(s)	Page Number(s)
	Please correct and return
Remarks:	



Notes

13



Learning objectives- you should be able to:

- ✓ List some common sources of heat. → Sun, fire, candle flame etc.
- ✓ State that the <u>temperature</u> of an object is a <u>measurement</u> of its degree of hotness or coldness. <u>accurate</u>
- ✓ <u>Differentiate</u> between heat and temperature:
 - heat is a form of energy
 - temperature is a measurement of the degree of hotness or coldness of an object
- ✓ Show an understanding that <u>heat flows from a hotter to a colder object</u> until both reach the same temperature.

 decrease in temperature.
- ✓ Relate the change in temperature of an object to the gain or loss of heat by the object.
 Increase in temperature

What is Heat Energy?

- Heat is a form of e nergy
 - → gain heat → increase
- It makes things hot and changes the temperature of things.
 - → lose heat → decrease
- · We cannot see heat but we can feel it.
- Heat can cause <u>changes</u> in the <u>state of matter</u>.

 e.g. lce to water

 necessary for evaporation / condensation

Sources of Heat

- Anything that gives off heat is a source of heat.
- The S is our main source of heat. It provides the Earth with warmth so that life can survive. The Sun's energy is called solar energy.
- Man makes use of Sun's heat to dry wet clothes and to preserve food.

evaporation



Heat can also be <u>produced</u> by:

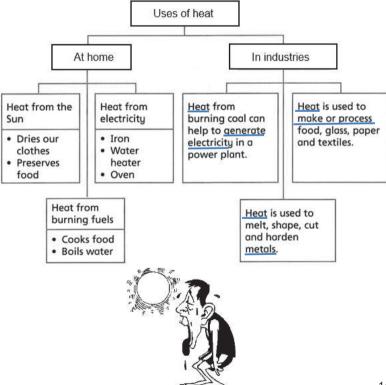
- → 2 surfaces in contact
- (a) R <u>ubbing</u> two things together (from friction)

 Heat is produced when two things are rubbed together due to friction.
- (b) B <u>urning</u> **fuels** such as wood, charcoal, kerosene and gas.

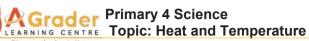
 They burn to give off heat and light.
- (c) E lectricity

A metal wire <u>gets hot</u> when <u>electricity passes through</u> it. Man has learnt to use electricity to <u>produce heat in electrical appliances</u> such as ovens, irons, hair dryers, kettles and rice cookers.

- <u>Most light sources are also heat sources</u>. For example, candle flames, lamps, light bulbs, etc.
- We use heat in many ways, both at home and in the industries as shown:









Learning objectives:

✓ To show the heat transfer between hands and water.

Process Skills:

✓ Observing and inferring

Procedure:	 Fill up a basin with cold water, one with warm water and one with tap water. Place right hand in warm water and left hand in cold water. After 10 seconds, place both hands in tap water. Observe the feeling.
Apparatus:	3 basins Towel (in case of spillage)
Outcome:	The right hand should feel cold while the left hand should feel warm.
Explanation:	If the skin comes in contact with <u>warm water first</u> , it will <u>g</u> <u>ain heat</u> from the warm water and <u>becomes warmer</u> . When it is being transferred to the tap water, the <u>warm hand I</u> <u>ose heat</u> to the tap water thus <u>felt colder</u> . If the skin comes in contact with <u>cold water</u> first, it will <u>l</u> <u>ose heat</u> to the cold water and becomes <u>colder</u> . When it is being transferred to the tap water, the <u>cold hand g</u> <u>ain heat</u> from the tap water thus <u>felt warmer</u> .
Conclusion:	Heat travels from a hotter to a colder region.



MCQ Walk-through

For the following questions, choose the correct option and write its number in the bracket.

→ air-conditioned

→ gain heat from surroundings

1. In a restaurant, Mr Soh ordered a cup of cold water while Mrs Soh ordered a cup of warm water.

→ lose heat to surroundings

Mr Soh's water: 50ml of water at 10 °C



Mrs Soh's water: 50ml of water at 60 °C

What happened to the water if Mr and Mrs Soh both left their water untouched on the table for 20min?

no additional heat

(1)	Gained heat	Lost heat	Temperature
Cold water	r	✓ X	Decreased X
Warm water	er	✓ ✓	Decreased ✓

(2)	Gained heat	Lost heat	Temperature
Cold water	✓ ✓		Increased ✓
Warm water	√ X		Increased X

(3)	Gained heat	Lost heat	Temperature
Cold water	✓ ✓		Increased 🗸
Warm water		✓ ✓	Decreased✓

(4)	Gained heat	Lost heat	Temperature
Cold water		✓ X	Decreased X
Warm water	✓ X		Increased X

Concept:

Heat flows from a region of higher temperature to a region of lower temperature.

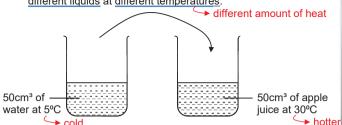








2. The diagram below shows two beakers, each containing 50cm³ of different liquids at different temperatures.

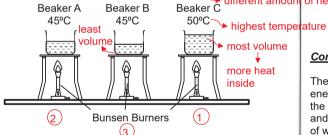


Which of the following statements about the final temperature of both liquids is correct after water is added to apple juice completely. heat travels from hotter region to colder region

- (1) The final temperature will decrease and then increase. F X
- (2) Both liquids have the final temperature of 35°C. F X -
- (3) The final temperature will decrease to 5°C and then to the temperature of the surroundings. F X
- (4) The final temperature will decrease to a temperature higher than 5°C but lower than 30°C. T ✓→ heat will be transferred until it reaches a balance

constant variable -

3. Three glass beakers of similar sizes are filled with different amounts of water heated to different temperatures. heated variable



Arrange the beakers in order, starting with the one with the most heat.

→ highest temperature most volume of water

- (1) A, C, B
- (2) C, A, B
- (3) B. A. C
- (4) C, B, A

(2)

Concept:

The water gained heat from the apple juice and apple juice while the apple juice lost heat to the water.

temperature should not be added up

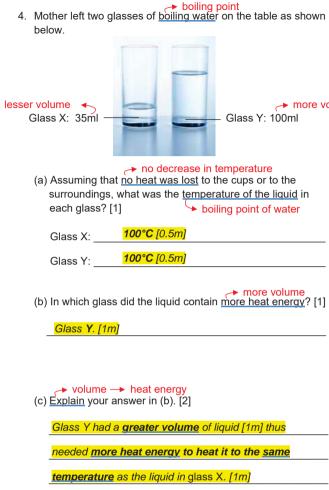
Beaker C different amount of heat



The amount of heat energy depends on the amount of water and the temperature of water.

17

Concept:



needed more heat energy to heat it to the same

not changed or measured variables

(d) State one variable that must be kept the same in order to conduct a fair test. [1]

The thickness of the glass. [1m]

a) Concept:

→ more volume

Pure water boils at a fixed temperature.

b) Concept:

Amount of heat energy depends on the volume of water and temperature of water.

c) Keywords:

Greater volume; more heat energy

d) Hint:

Specific words must be used (e.g. size of containers)





Answering Techniques



Analysing common process-skill questions

Common questions	How to tackle the question
Conclude from experiment	It answers the aim of the experiment, by stating a positive relationship or may require
Question	an inference from the results.
Controlled variable	Variables are kept constant so that they do not influence the effect of the independent
Question	variable on the dependent variable
Questions with "why", "explain"	Part 1: state what you observe.
and "give a reason" without results	Part 2: apply conceptual knowledge.
Questions	Eg: A stone is a solid (observe) and solid has definite volume (conceptual knowledge)



P4 Creative Writing

Theme: A Shopping Trip

Name:			
Date:			

Homework:	Corrections:
Page Number(s)	Page Number(s)
	Please correct and return
Remarks:	



A Shopping Trip

Write a story based on the situation in the picture below. Your story should be \underline{at} least 120 words long.

Your composition should be based on one or more of these pictures.







21

You may make use of the following points in your story:

- Why did the main character go shopping?
- What happened during the shopping trip? Was there anything unusual?

You may also include other relevant points.

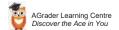
Brainstorming: 5W1H

WHO?

	WHO was involved?		
Name / Role in the Story			
Character Traits	 Quarrelsome Fashion-conscious Determined to get his/her hands on the item 	 Impatient Avid shopper Always on the lookout for good deals 	



22





WHAT? (What happened during the shopping trip?)

While initially excited by the prospect of purchasing quality items at a discounted price, the main character became annoyed when he/she got involved in a fight with a fellow shopper over a piece of merchandise. The merchandise was damaged during

the fight and both parties scrambled to get away to avoid being discovered

and caught.

WHY? (Why did the character go shopping? If there was an argument, why did it happen?)

The main character had his/her eye on a piece of merchandise that another shopper also liked. Since neither of them was willing to give in, a fight broke out and the

merchandise was damaged as a result.

A SHOPPING TRIP

WHERE? / WHEN? (Where and when did the incident happen?)

- City Department Store
- Hordes of shoppers crowding
- During the Great Singapore Sale, when incredible discounts were offered for all kinds of products

HOW? (How did the characters feel?)

- Excited (about the various bargains)
- Annoyed (when fighting over the merchandise)
- Worried (about the consequences/being held responsible for the damage)
- Embarrassed/Regretful (after being caught)

Suggested: 20min (Pg 9-10)

Vocabulary

Word/Phrase	Meaning
fancied	wanted orlikedsomething
garment	a piece of <u>clothing</u>
generous	than usual or what is needed
hordes	groups of people
luring	attracting
opportunity	chance
ripping	making a <u>tear</u> in something
rummaging	<u>searching</u> untidily
seams	a line where two pieces of fabric aresewn together
thronged	flocked or be present in <u>great</u> numbers

Model Composition

Fill in the blanks in the following passage with the correct words.

The Great Singapore Sale was here again. Retail outlets across the country took the (1)opportunity to advertise special offers to attract customers. City	Introduction: The story begins with a description of the place where the
Department Store was no exception. The store had organised a big sale, (2) <u>luring</u> customers with	conflict takes place.
(3) <u>generous</u> discounts on consumer electronics,	
household items and apparel.	
Bargain hunters (4) <u>thronged</u> City	
Department Store, eager to grab the best buys . Among the	Rising Action:





sea of shoppers in the store was Mrs Jenny, clad in a branded leather jacket and pants despite the hot weather. Being fashion-conscious and on a budget, Mrs Jenny was hoping to take advantage of the reduced prices to update her wardrobe. At the ladies' wear department, there was a huge pile of quality pieces going at seventy percent discount. Mrs Jenny squeezed and pushed through the crowd and ioined in the (5) of other ladies eagerly rummaging through the assortment of clothes. Mrs Jenny spotted a dark blue blazer that she (7) . She pulled the blazer by the sleeve Climax: This paragraph is a from the pile of clothing. However, some forceful tugging description of how the conflict started. from the other side made her stop in her tracks and she uttered a growl of annoyance when she saw the lady "uttered a growl of annovance" beside her gripping the other sleeve of the same Show not tell - this shows that Mrs garment (8) Jenny was irritated. "This belongs to me!" Mrs Jenny demanded, but the Meaningful dialogue to show Mrs Jenny's lady insisted that she was the one who had taken it first. With

came off entirely. Both ladies gasped in astonishment and

immediately dropped the garment, pretending that nothing Characterisation -From the paragraph. had happened. Fortunately for them, the people around how would you describe Mrs Jenny? them had been too engrossed in shopping to notice their Overly concerned childish quarrel.

home for the day.

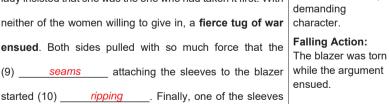
Now that neither of them could have the blazer, they walked away hurriedly before the sales assistant could discover that they had damaged the garment. They did not dare linger a moment longer - not even to inspect the other goods on sale. "Great Singapore Sales, not so great

anymore," grumbled Mrs Jenny as she decided to head

They were shocked as their actions has caused the blazer to be torn.

Conclusion:

Both parties walked away from the scene now that none of them wished to have the torn blazer.



Vain

about her

appearance

"gasped in astonishment" -

25





Word Bank

Phrases to describe a busy/crowded place (using the 5 senses)

- the cold air swept across my face, leaving a refreshing sensation
- teeming with shoppers ceaselessly thronging the passages between the shops
- bustling with activity
- people in colourful attire, bright lights from the stores, balloons hanging from the ceiling and shiny tinsel all added to the Christmas atmosphere
- music blaring from the stores
- non-stop chatter of crowds was deafening
- parents with small children tagging along / pushing strollers with young
 babies who had fallen asleep peacefully inside
- place was packed like sardines and there was hardly any space to move

Phrases related to a quarrel

- steam was practically coming out of her ears
- · tempers flared and voices blared
- vehement argument
- balled his hands into tight, seething fists
- uttered a growl of annoyance
- red with fury
- in a fit of anger



