



Care Package

PRIMARY 3

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 3.

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! ©)				
	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! (2))				

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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

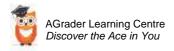


Well Structured Notes with Exercises in Increasing Difficulty to Help Students Learn in a "Step-by-Step" Approach

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.



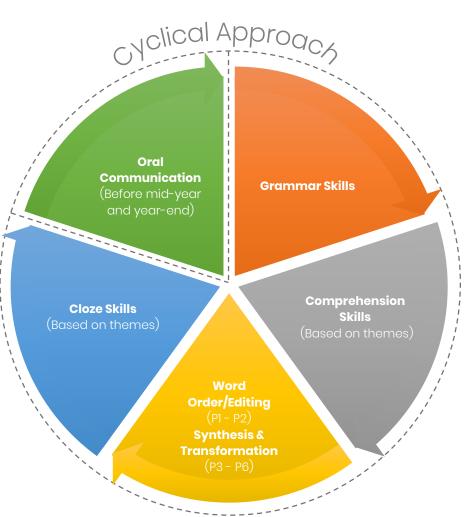
Revision Papers

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

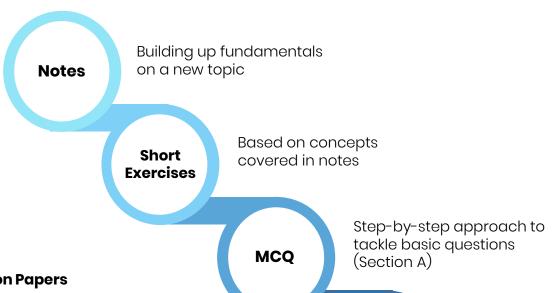
Booklet B:

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.

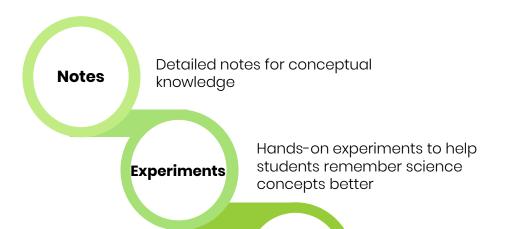
Problem sums that test the similar heuristic will be bundled together for **Problem** the students to practise (Section C) Sums

> **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

PRIMARY 3

Worksheets & Annotated Solutions

(For Students)

(For Parents)

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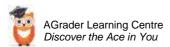
P3 English

Grammar Skills

Synthesis and Transformation

Name:			
Date: _	 		

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



Synthesis & Transformation

When we want to link information together, we can use connectors. Common connectors are (and, as well as, both, together with, or, either ... or, neither ... nor, not only ... but also)

In this worksheet, we will be covering: and, as well as

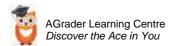
And	Examples		
- To add more	1) Karen is arrogant. Vivian, her older sister, is also		
information to what	arrogant.		
we want to write			
	Karen <u>and</u> her older sister, Vivian, <i>are</i> arrogant.		
- May have to change			
the verb so that it			
matches the	2) The Sydney Opera House is designed by a Danish		
combined subject	architect to look like the sails of a ship. The Sydney		
or leave out some	Opera House took 14 years to build.		
words			
	The Sydney Opera House is designed by a Danish		
	architect to look like the sails of a ship and it took		
	14 years to build.		
(Votch	Note: When two sentences share the same subject,		
	we need to mention the subject only once. There is		
	no need to repeat the word 'Sydney Opera House'		
	in the combined sentence.		

Exercise 1

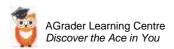
For each question, rewrite the given sentence(s) using the words provided. Your answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

 She fell over. She skinned he 	er knees.
---	-----------

She fell over and			



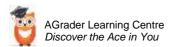
4.	Laura likes to eat apples. Laura likes to eat pears too.	and
		and
3.	I like to play board games. Shaun likes to play board games.	
		and



As well as	Examples
- Used to link words and phrases together	We read mainly for two reasons. One is to enjoy ourselves. The other reason is to get information.
	We read mainly to enjoy ourselves as well as to get information.
	Ants live underground. Some ants live in nests constructed from the leaves of trees.
	Ants live underground <u>as well as</u> in nests constructed from the leaves of trees.

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).

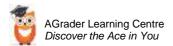
1.	The villagers helped the old man plough the land. They helped him plant the rice seeds.
	as well as
2.	The party was enjoyed by all of Jaclyn's friends. Her aunt enjoyed herself too.
	The party
	as well as
3.	Many poor people sleep on the streets. They sleep under bridges. They sleep on benches in the park.
	as well as



Both Examples Use both together with and 1) My uncle is old. My uncle is also frail. to link words and phrases My uncle is **both** old **and** frail. May have to change the verb so that it matches the Note: The verb 'is' is used once only as both combined subject or leave parts share the same verb. out some words 2) Paul is a talented dancer. His sister is also a talented dancer. Both Paul and his sister are talented dancers. **Exercise 3** 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. Eric is a good salesman. He is also a good sportsman.

Eric is both _____

2.	Kimberly is my sister. Rochelle is my sister.
	Both
3.	Jeffrey loves to collect seashells. Ben loves to collect seashells.
	Both



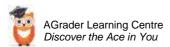


P3 Mathematics

Topic: Addition and Subtraction

Name:	 	 	
Date: _			

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





Primary 3 Mathematics Topic: Addition & Subtraction

Discover the Ace in You

When adding or subtracting, always start from the digits in the **ones place**, followed by the digits in the **tens place**, then the **hundreds place** and finally, the **thousands place**.



Subtracting Numbers with Regrouping

Example

Finding the difference of 6934 and 1683.

Solution:

Step 1: Subtract the ones.

Thousands	Hundreds	Tens	Ones
6	9	3	1 4
- 1	6	8	3

Step 2: Subtract the tens.

Thousands 6	Hundreds	Tens 1	Ones 4
	0	1 0 '	<u> </u>
		5	1

We regroup 9 hundreds 3 tens into 8 hundreds 13 tens.

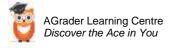
Step 3: Subtract the hundreds.

Thousands 6	Hundreds 8 9	Tens	Ones 4
1	6	8`	3
	2 _ 2	5	1

Step 4: Subtract the thousands.

Thousands	Hundreds	Tens	Ones
6	Ø 8	¹³ 3	4
<u> </u>	6	8`	3
5	2	5	1

The difference between 6934 and 1683 is 5251.





Exercise

Fill in the missing digits in each box.

Primary 3 Mathematics Topic: Addition and Subtraction

MCQ Drill

Difficulty level: Basic

- 1) What is 11 hundreds more than 2899?
 - (1) 3009
 - (2) 3909
 - (3) 3899
 - (4) 3999

)

Difficulty level: Intermediate



2)



- (1) 3250
- (2) 3750
- (3) 4000
- (4) 4500

)

- 3) Zoey wants to buy a computer which costs \$2700. She has \$1205. How much more money does she need to buy the computer?
 - (1) \$1505
 - (2) \$1905
 - (3) \$1495
 - (4) \$3905

)

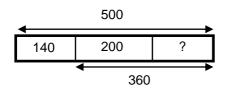
Concept 1: Part-Whole Model

Example 2

Priscilla had 500 stamps. She gave 140 stamps to Desmond and 200 stamps to May. How many stamps had she left?

Solution:

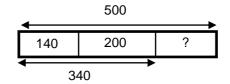
Method 1



$$500 - 140 = 360$$

$$360 - 200 = 160$$

Method 2



$$140 + 200 = 340$$

$$500 - 340 = 160$$

She had 160 stamps left.

1) A train left the main station with some passengers in it. 387 passengers alighted at the first station. 429 passengers alighted at the second station. If there were 735 passengers left on the train, how many passengers boarded the train at the main station?

Ans: _____

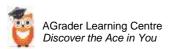


P3 Science

Topic: Making Magnets

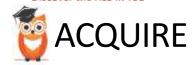
Name: _	
Date: _	

Homework:	Corrections:
Page Number(s)	Page Number(s)
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Remarks:	





Primary 3 Science Topic: Making Magnets



Learning objectives- you should be able to:

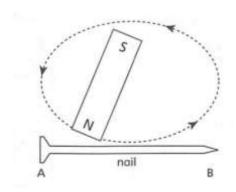
- ✓ Identify and state the ways of making a magnet by the stroking method and the electrical method.
- ✓ Understand how magnets lose magnetism.

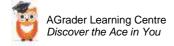
Making Magnets

- An ordinary object can be made into a magnet if it is a magnetic substance like iron, steel, nickel and cobalt.
- It cannot be made into a magnet if it is a non-magnetic substance like glass, wood and cloth.
- There are two ways to make a magnet:

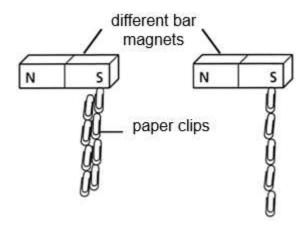
i. S_____ Method

- A magnet can be made by **stroking a magnetic object** such as an iron nail or a steel bar with a magnet.
- Stroke the object with **one pole** of a bar magnet **in one direction multiple times**.



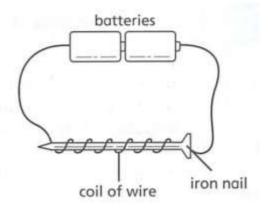


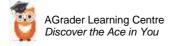
- As the magnet leaves the iron nail at B, B becomes the temporary South pole while A becomes the temporary North pole.
- You can show that the object has become a magnet by placing it near some paper clips/iron filings. The paper clips/iron filings will be attracted to the object.
- The **greater the number of times** you stroke the magnetic object, the **stronger** the magnet will be.



The stronger magnet attracts more paper clips

- However, its magnetism only lasts for a **short period of time**.
- ii. E Method
 - Electricity can also be used to magnetise a magnetic object.
 - This type of magnet is called an **electromagnet** and is widely used in industries.
 - It can be made by coiling a piece of wire around a magnetic object and connecting the ends of the wire to the ends of a battery.







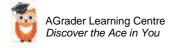
Learning objectives:

✓ To understand how temporary magnets are made using 'stroking' method.

Process Skills:

✓ Observing and inferring

Apparatus:	1 Bar magnet		
	1 Iron nail		
	2 Paper clips		
Procedure:	 Hold an iron nail on a flat surface; then with the north end of a strong bar magnet stroke the iron nail from the head towards the end multiple times. Continue this for about 50 strokes. Keep in mind that the same pole of the magnet should be used every time and strokes should be in the same direction. Bring the magnet near some paper clips. Observe what happens. 		
Outcome:	The paper clips will get attracted to the magnetised iron nail.		
Explanation:	A magnetic object can be made into a		
	by the stroking method.		
Conclusion:	by the energy method.		
CONCIUSION.			



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

- 1. An iron bar can be made into an electromagnet. Which of the following ways can make this electromagnet to attract more iron nails?
 - A. Use a bigger iron bar.
 - B. Increase the amount of electricity around the iron bar.
 - C. Increase the number of turns of wire around the iron bar.
 - (1) A and B only
 - (2) A and C only
 - (3) B and C only
 - (4) A, B and C

2. Three students were discussing how to check if an electromagnet is working.

Marcus: Put some staples near it.

Nelson: Check if it can repel insulators.

Osman: Check to see whether it conducts electricity.

Who is right?

- (1) Marcus
- (2) Nelson
- (3) Osman
- (4) None of them is correct.

)

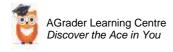
Concept:

The strength of an electromagnet can be made stronger by increasing the number of coils or wire around the magnetic object as well as increasing the number of batteries.

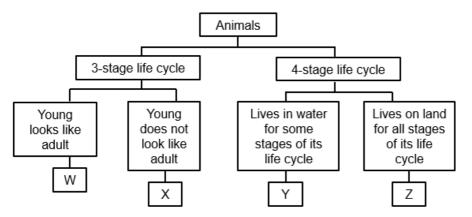
Concept:

)

A magnet can only attract magnetic materials.



2. Study the classification chart below carefully.



(a)	Based on the classification	chart,	state a	difference
	between W and X. [1]			

		 	-

(b)	Based on the classification	chart,	state	a similarity
	between Y and Z. [1]			

(c)	Based on the	classification	chart,	describe	the
	characteristics	s of Z. [1]			

(d) Which letter best represents the following animals? [2]

(i) Toad:

(ii) Housefly: _		

a) Answering technique:

State the information that is present in one but absent in the other by using 'while' or 'but'

<u>b) Answering</u> <u>technique:</u>

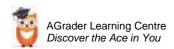
State the information that is present by using 'both'

c) Answering technique:

Answer by stating the information present in the flowchart

d) Concept:

Toad has a 3-stages life cycle while the housefly has a 4-stages life cycle.



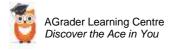


Primary 3 Science Topic: Life Cycles of Animals



Analysing common *process-skill* questions

Common questions	How to tackle the question
Describe the organism based on the flowchart / classification chart	Answer by stating the information present in the flowchart
Question 2(c)	
Compare similarities Questions 2(b), 3(b), 6(a)	State the information that is present by using 'both'
Questions 2(b), 0(b), 0(d)	Eg: Both organisms have wings.
Compare differences	State the information that is present in one but absent in the other by using 'while' or 'but'
Questions 2(a), 3(c), 6(b)	Eg: Organism A has wings while organism B has no wings.
Questions with "why", "explain" and "give a reason" without results	Part 1: state what you observe. Part 2: apply conceptual knowledge.
Questions 5(c), 6(c)	Eg: A stone is a solid (observe) and solid has definite volume (conceptual knowledge)





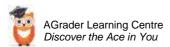
P3 Creative Writing

Theme: Celebration

Homework:	Corrections:
Page Number(s)	Page Number(s)

Name:

Remarks:

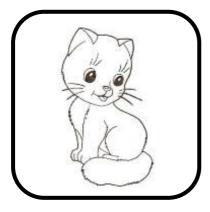


Date:

A Kind Act

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:

- Who/What needed your help?
- How did you help him/her/it?
- Where were you when you performed the good deed?
- Did you do it alone or did someone assist you?

You may also include other relevant points.

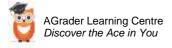
Brainstorming: 5W1H

WHO?

Who was the person who needed help and **who** was the person who lent a helping hand?

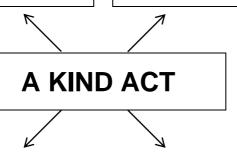
How would you describe each of these people?

	Person (or animal) who needed help	Person who helped
Name (if any) / Character		
Physical appearance		
Actions / Behaviour		



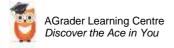
WHAT? (What happened? Why did the person/animal need help? What did the main character do to help?)

WHERE? (Where did the story take place?)



WHEN? (When did the incident happen?)

HOW? (How did the characters feel?) **WHY?** (Why did the main character lend a helping hand?

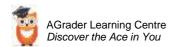


Vocabulary

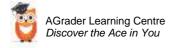
Model Composition

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

The sun shone brilliantly in the blue sky dotted with fluffy	Introduction:				
white clouds as a cool breeze blew past. The	Description of the setting with				
(1) weather conditions made Amy's walk home	a weather description and				
from tuition a pleasant one. She hummed a merry tune as she	introduction of the character				
walked along the footpath towards home.					
As she was turning the corner, Amy thought she heard the	Rising Action: Amy heard the mewing sounds				
sound of a kitten. She looked around, trying to spot it, but did not					
see anything. As she walked on, the mewing sounds became more	and found a kitten.				
(2) and	and				
realised it was coming from above her. Craning her neck and					
straining her eyes to peer at the trees, her eyes widened in					
(4) when she finally discovered the source of the	Shows reaction before telling the				
newing. She clapped her hand over her mouth to readers what					
5) a gasp as she noticed a frightened-looking makes readers					
kitten sitting (6) on a branch, mewing pitifully.	want to find out more.				
"Oh my, how did you end up stuck in a tree?" Amy wondered Climax:					
out loud. Clearly having no means to rescue the helpless	that the kitten				
(7) by herself, images of firemen saving kittens					
stuck in trees, which she had watched on television, sprung to her					
mind. Amy whipped out her mobile phone and dialled '995'.	Falling Action:				
The operator took down Amy's location and a red rhino	The kitten was				
compact rescue vehicle was (8) to the scene. finally saved by the civil defence officers					



Two civil defence officers arrived at the scene within ten minutes. They raised the ladder and one of the men climbed up to rescue the kitten. It mewed loudly as the officer lifted it from the branch but appeared to relax once it was safely in his arms. Amy heaved a sigh of relief. The officers then handed the kitten to Amy who thanked them (9) _____ for their assistance. They assured her that it was all in a day's work for them. Conclusion: Amy decided to (10) _____ the little kitten in her arms, Amy felt an take the kitten home. This instant fondness for her new furry friend. She decided that she paragraph also shows Amy's would take it home and ask her mother for permission to keep it as compassion a pet. Being without a collar, she assumed that it was a stray. Amy towards animals. did not know whether her mother would allow her to keep a pet, but she knew that her mother was an animal lover and was hopeful that her request would be granted. Amy's face glowed with happiness as she made her way home with her **newfound feline companion**.



Word Bank

Introduction

- · cottony white clouds lined the sky
- intense heat from the sun
- cool breeze ruffled her hair

Describing a situation where help is needed

General

sounds became more persistent

whimpering softly

describes someone in less

crying in a pitiful tone urgent need of help

calling out in distress

describes

• face twisted in agony | urgent need of help

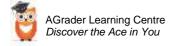
someone in more

Note: Be careful to use these phrases appropriately depending on the events in your story!

Help arrives

- · vehicle dispatched to the scene
- in the nick of time
- heaved a sigh of relief
- filled with gratitude
- thanked them profusely
- all in a day's work





Feelings

Happiness

- humming a merry tune
- walked with a spring in her step
- over the moon
- face glowed with happiness

Focus

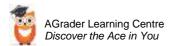
- craned my neck and strained my eyes
- listened intently

Surprise

- eyes widened in astonishment
- stood rooted to the ground in shock
- clapped her hand over her mouth to stifle a gasp

Conclusion

- heart swelled with pride
- newfound companion
- felt an instant fondness





P3 English

Grammar Skills

Synthesis and Transformation

Name	:		
Date:		_	

Homework:	Corrections:
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	Please correct and return
Remarks:	

Synthesis & Transformation

When we want to link information together, we can use connectors. Common connectors are (and, as well as, both, together with, or, either ... or, neither ... nor, not only ... but also)

In this worksheet, we will be covering: 'and', 'as well as' and 'both'.

And		Examples	
- To add more information to v	vhat	Karen is arrogant. Vivian, her older sister, is also arrogant.	
we want to writ	е	Konon and has alder sisten Viviers are arrested	
- May have to che the verb so that	•	Karen <u>and</u> her older sister, Vivian, <i>are</i> arrogant.	
matches the combined subji leave out some words	ect or	The Sydney Opera House is designed by a Danish architect to look like the sails of a ship. The Sydney Opera House took 14 years to build.	
		The Sydney Opera House is designed by a Danish architect to look like the sails of a ship and <i>it</i> took 14 years to build.	
	wotch out	Note: When two sentences share the same subject, we need to mention the subject only once. There is no need to repeat the word 'Sydney Opera House' in the combined sentence.	

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.	and She fell over. She skinned her knees.	Note: There is no need to repeat the word 'she' in the combined sentence.
	She fell over and <u>skinned her</u>	knees.





2.	. The new foreign pupil cannot spell well. He cannot count well.				
	The new foreign pupil cannot spell	and			
	count well.				
3.	I like to play board games. Shaun likes to play board games.				
	Shaun	and			
	I like to play board games.				
4.	Laura likes to eat apples. Laura likes to eat pears too.				
	Laura likes to eat apples	and			
	pears.				

As well as	Examples
 Used to link words and 	1) We read mainly for two reasons. One is to enjoy
phrases together	ourselves. The other reason is to get information.
	We read mainly to enjoy ourselves <u>as well as</u> to get information.
	Ants live underground. Some ants live in nests constructed from the leaves of trees.
	Ants live underground <u>as well as</u> in nests
	constructed from the leaves of trees.

answer must be in one sentence. The meaning of your sentence must be the same as the given one(s).

as well as

 The villagers helped the old man plot 	ough the land. They helped him plant the
rice seeds.	Note: Eliminate the repeated words or phrases

The villagers helped the old man plough his land				
as well as	plant the rice seeds.			

2. The party was enjoyed by all of Jaclyn's friends. Her aunt enjoyed herself too.

The party	was enjoyed by all of Jaclyn's friends
as well as	her aunt.

3. Many poor people sleep on the streets. They sleep under bridges. They sleep on benches in the park.

Many poor people sleep on the streets, under bridges					
	on benches in the park.				
as well as	on benefics in the park.				





SOLUTIONS (WITH ANNOTATIONS)



P3 Mathematics

Topic: Addition and Subtraction

Name:			
Date:			

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Remarks:	

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Examples

Use **both** together with **and** 1) My uncle is old. My uncle is also frail.

My uncle is **both** old **and** frail.

Note: The verb 'is' is used once only as both parts share the same verb.

2) Paul is a talented dancer. His sister is also a talented dancer.

Both Paul **and** his sister *are* talented dancers.

Exercise 3

Both

to link words and phrases

May have to change the verb so that it matches the

combined subject or leave

out some words

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).

and

1. Eric is a good salesman. He is also a good sportsman.

Note: Eliminate the repeated words or phrases

5

Eric is both	a good salesman and sponsman.		

2	Kimherly	is m	v sister	Rochelle	is my	/ sister
∠.	MILLIDELLA	v 13 III	y Sistei.	IVOCITETIE	13 111	/ 313101

Both	Kimberly and Rochelle are my sisters.

3. Jeffrey loves to collect seashells. Ben loves to collect seashells.

Both	Jeffrey and Ben love to collect seashells.	





Primary 3 Mathematics Topic: Addition & Subtraction

Notes

When adding or subtracting, always start from the digits in the **ones place**, followed by the digits in the **tens place**, then the **hundreds place** and finally, the **thousands place**.



Subtracting Numbers with Regrouping

Example

Finding the difference of 6934 and 1683.

Solution:

Step 1: Subtract the ones.

Thousands	Hundreds	Tens	Ones
6	9	3	1 4
- 1	6	8	1 3 1
			(1)

Step 2: Subtract the tens.

TI	housands 6 1	Hundreds ⁸ 9, 1 6	(₁	Tens	Ones 4 3
			Ų	5	1

We regroup 9 hundreds 3 tens into 8 hundreds 13 tens.

Step 3: Subtract the hundreds.

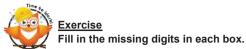
Thousands 6	Hundreds	Tens	Ones 4
- 1	6	8	3
	2	5	1

Step 4: Subtract the thousands.

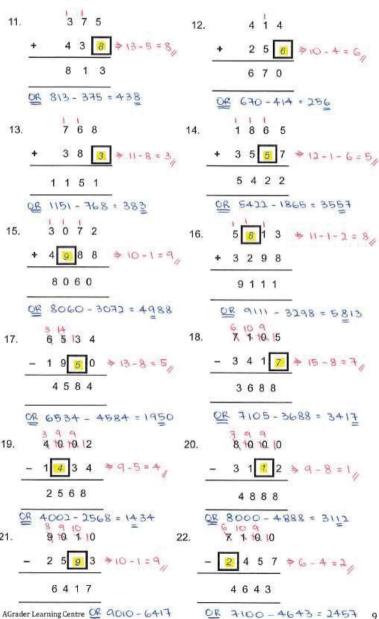
Thousands	Hundreds	Tens	Ones
6	. 88	¹³ 3	4
<u> </u>	6	8`	3
5	2	5	1

The difference between 6934 and 1683 is 5251.





Discover the Ace in You





Primary 3 Mathematics Topic: Addition and Subtraction

MCQ Drill

Difficulty level: Basic

× 1100 What is 11 hundreds more than 2899?

(1) 3009

(2) 3909

(3) 3899

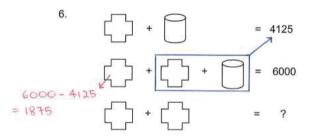
(4) 3999

2899

(4)

Difficulty level: Intermediate





(1) 3250

1875 + 1875 = 3750

(2) 3750

(3) 4000

(4) 4500

(2)

9

7. Zoey wants to buy a computer which costs \$2700. She has \$1205. How much more money does she need to buy the computer?

(1) \$1505

(2) \$1905 (3) \$1495

(4) \$3905



\$2700 - \$1205 = \$1495/ (3)

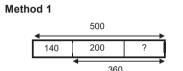
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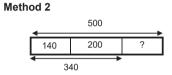
Concept 1: Part-Whole Model

Example 2

Priscilla had 500 stamps. She gave 140 stamps to Desmond and 200 stamps to May. How many stamps had she left?

Solution:



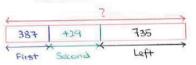


500 - 140 = 360

She had 160 stamps left.



2. A train left the main station with some passengers in it. 387 passengers alighted at the first station. 429 passengers alighted at the second station If there were 735 passengers left on the train, how many passengers boarded the train at the main station?



Main station
$$\rightarrow 387 + 429 + 735$$

= 1551

LEARNING CENTRE

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Discover the Ace in You

P3 Science

Topic: Making Magnets

Name:

Date:

Homework:

Remarks:

Page Number(s)

Discover the Ace in You



Notes



Learning objectives- you should be able to:

- ✓ <u>Identify and state the ways</u> of making a magnet by the <u>stroking method</u> and the <u>electrical method</u>.
- ✓ Understand how magnets lose magnetism.



Making Magnets

 An ordinary object can be <u>made into a magnet</u> if it is a <u>magnetic substance</u> like <u>iron</u>, steel, nickel and cobalt.

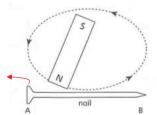
magnetic material

- It <u>cannot be made into a magnet</u> if it is a <u>non-magnetic substance</u> like glass, wood and cloth.

 non-magnetic material
- There are two ways to make a magnet:
 Important

i	S	troking	Method
1.	J		INIGUIOU

- A magnet can be made by <u>stroking a magnetic object</u> such as an iron nail or a steel bar <u>with a magnet</u>.
- Stroke the object with <u>one pole</u> of a bar magnet in <u>one direction multiple</u> times.



The part which the magnet lands first will take on that pole. In this case, the Northpole

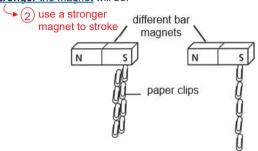
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demagnetisation

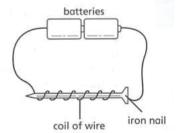
- As the magnet leaves the iron nail at B, <u>B</u> becomes the temporary South
 pole while <u>A</u> becomes the temporary North pole.
- You can show that the object has become a magnet by <u>placing it near</u> some paper clips/iron filings. The paper clips/iron filings will be <u>attracted</u> to the object.

 magnetic material
- The <u>greater the number of times you stroke</u> the magnetic object, the <u>stronger the magnet</u> will be.



The stronger magnet attracts more paper clips

- However, its magnetism only lasts for a short period of time.
- ii. E<u>lectrical</u> Method
 - Electricity can also be used to magnetise a magnetic object.
 - This type of magnet is called an <u>electromagnet</u> and is widely used in industries.
 scrap yard etc
 - It can be made by <u>coiling a piece of wire around a magnetic object</u> and <u>connecting the ends of the wire to the ends of a battery.</u>







Walk-Through Experiment



Learning objectives:

magnetism only lasts for a short time

✓ To understand how temporary magnets are made using 'stroking' method.

Process Skills:

✓ Observing and inferring

Apparatus:	1 Bar magnet 1 Iron nail	
	1 Iron nall 2 Paper clips	
	2.1 340.1 0.140	
Procedure:	 Hold an iron nail on a flat surface; then with the north end of a strong bar magnet stroke the iron nail from the head towards the end multiple times. Continue this for about 50 strokes. Keep in mind that the same pole of the magnet should be used every time and strokes should be in the same direction. Bring the magnet near some paper clips. Observe what happens. 	
Outcome:	The paper clips will get attracted to the magnetised iron nail.	
Explanation:	A magnetic object can be made into a temporary magnet	
	by the stroking method.	
Conclusion:	One of the ways to make a magnet is by stroking. The	
	magnetised nail is able to attract magnetic material. However,	
	its magnetism lasts for only a short period of time.	



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MCQ Walk-through

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

magnetic material

1. An iron bar can be made into an electromagnet. Which of the following ways can make this electromagnet to attract more iron nails? more magnetic strength

- A. Use a bigger iron bar. F X

 size does not affect
 magnetic strength
 B. Increase the amount of electricity around the iron bar.
- C. Increase the number of turns of wire around the iron bar.

T ✓ increase magnetic strength

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

2. Three students were discussing how to check if an electromagnet is working.

indicates conductivity, not

Can attract / repel will attract magnetic material

Nelson: Check if it can repel insMators. F X → supposed to rep

Osman: Check to see whether it conducts electricity. F X

magnetism

Who is right?

- (1) Marcus
- (2) Nelson
- (3) Osman
- (4) None of them is correct.

Concept:

The strength of an electromagnet can be made stronger by increasing the number of coils or wire around the magnetic object as well as increasing the number of batteries.

Concept:

A magnet can only attract magnetic

(1)

(3)

materials.

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2. Study the classification chart below carefully. Animals 3-stage life cycle 4-stage life cycle (b) (c) Young Lives in water Lives on land Youna for all stages does not for some looks like look like of its life stages of its adult cycle adult life cycle (a) W Х Υ ng characteristics)
a) Answering (a) Based on the classification chart, state a difference technique: between W and X. [1] State the information The young of W looks like the adult but the young that is present in one but absent in the of X does not look like the adult. [1m] other by using 'while' or 'but' common charact b) Answering (b) Based on the classification chart, state a similarity technique: between Y and Z. [1] State the information Both have 4-stage life cycle. [1m that is present by using 'both' all information in flowchart (c) Based on the classification chart, describe the c) Answering characteristics of Z. [1] technique: It has a 4-stage life cycle and lives on land for all Answer by stating the information stages of its life cvcle. [1m] present in the flowchart matching characteristics
(d) Which letter best represents the following animals? [2] d) Concept: 3-stages / does not look like adult (i) Toad: X. [1m] Toad has a 3-stages life cycle while the (ii) Housefly:

housefly has a 4stages life cycle.



→ 4-stages / lives on land





Analysing common process-skill questions

Common questions	How to tackle the question
Describe the organism based on the flowchart / classification chart	Answer by stating the information present in the flowchart
Question 2(c)	
Compare similarities	State the information that is present by using 'both'
Questions 2(b), 3(b), 6(a)	Eg: Both organisms have wings.
Compare differences	State the information that is present in one but absent in the other by using 'while' or 'but'
Questions 2(a), 3(c), 6(b)	Eg: Organism A has wings while organism B has no wings.
Questions with "why", "explain" and "give a reason" without results	Part 1: state what you observe. Part 2: apply conceptual knowledge.
Questions 5(c), 6(c)	Eg: A stone is a solid (observe) and solid has definite volume (conceptual knowledge)



P3 Creative Writing

Theme: A Kind Act

Name	:		
Date:			

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A Kind Act

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

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







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

- Who/What needed your help?
- How did you help him/her/it?
- Where were you when you performed the good deed?
- Did you do it alone or did someone assist you?

You may also include other relevant points.

Brainstorming: 5W1H

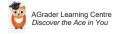
WHO?

Who was the person who needed help and **who** was the person who lent a helping hand?

How would you describe each of these people?

	Person (or animal) who needed help	Person who helped
Name (if any) / Character	An injured cat / an abandoned dog / a child who was lost / an elderly man who had fallen	Amy - main character who is compassionate and has a kind heart
Physical appearance	Animal's fur drenched from the rain / hair in disarray / child sobbing pitifully / forlorn-looking eyes / so thin that its bones were jutting out	has a fair complexion / a pair of bright, sparkling eyes / neatly combed hair
Actions / Behaviour	Animal whimpering in pain / mewing in distress / voice was trembling / speech was laboured / lay motionlessly on the ground / quivering in the cold	frowned in worry / heartbeat accelerated / paced up and down





WHAT? (What happened? Why did the person/animal need help? What did the main character do to help?)

The main character was walking home when she saw an injured cat / an abandoned dog / a child who was lost / an elderly man who has fallen down and decided to lend a helping hand. The main character decided to call for assistance / took care of the child till his/her parents returned.

WHERE? (Where did the story take place?)

The incident occurred at a quiet park / along a pavement where few people would pass by.



WHEN? (When did the incident happen?)

It happened on the main character's way home after school / on a breezy morning / after a heavy downpour and the pavement could have been slippery, causing someone to fall.

HOW? (How did the characters feel?)
WHY? (Why did the main character lend
a helping hand?

- Worried (when she saw the injured cat/person) and wanted to help.
- Pleased (knowing that she had done a good deed)
 - beamed with delight after her mother praised her
 - felt over the moon knowing that her efforts had paid off
- Felt an instant fondness for the cat.



Discover the Ace in You

Vocabulary

Model Composition

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

The sun shone brilliantly in the blue sky dotted with fluffy	Introduction:
white clouds as a cool breeze blew past. The	Description of the setting with
(1) <u>favourable</u> weather conditions made Amy's walk home	a weather description and
from tuition a pleasant one. She $\ensuremath{\mathbf{hummed}}$ a $\ensuremath{\mathbf{merry}}$ tune as she	introduction of the character
walked along the footpath towards home.	
As she was turning the corner, Amy thought she heard the	Rising Action:
sound of a kitten. She looked around, trying to spot it, but did not	Amy heard the mewing sounds
see anything. As she walked on, the mewing sounds became more	and found a kitten.
(2) <u>persistent</u> . Amy listened (3) <u>intently</u> and	
realised it was coming from above her. Craning her neck and	
straining her eyes to peer at the trees, her eyes widened in	
(4) <u>astonishment</u> when she finally discovered the source of the	Shows reaction before telling the
mewing. She clapped her hand over her mouth to	readers what was happening -
(5) <u>stifle</u> a gasp as she noticed a frightened-looking	makes readers
kitten sitting (6) <u>precariously</u> on a branch, mewing pitifully.	want to find out more.
"Oh my, how did you end up stuck in a tree?" Amy wondered	Climax:
out loud. Clearly having no means to rescue the helpless	Amy realized that the kitten
(7) <u>feline</u> by herself, images of firemen saving kittens	was stuck and called for help.
stuck in trees, which she had watched on television, sprung to her	
mind. Amy whipped out her mobile phone and dialled '995'.	Falling Action:
The operator took down Amy's location and a red rhino	The kitten was finally saved by
compact rescue vehicle was (8) to the scene.	the civil defence officers.

Two civil defence officers arrived at the scene within ten minutes. They raised the ladder and one of the men climbed up to rescue the kitten. It mewed loudly as the officer lifted it from the branch but appeared to relax once it was safely in his arms. Amy heaved a sigh of relief. The officers then handed the kitten to Amy who thanked them (9) ______ for their assistance. They assured her that it was all in a day's work for them.

(10) <u>Cradling</u> the little kitten in her arms, Amy **felt an instant fondness** for her new furry friend. She decided that she would take it home and ask her mother for permission to keep it as a pet. Being without a collar, she assumed that it was a stray. Amy did not know whether her mother would allow her to keep a pet, but she knew that her mother was an animal lover and was hopeful that her request would be granted. Amy's **face glowed with happiness** as she made her way home with her **newfound feline companion**.

Conclusion:

Amy decided to take the kitten home. This paragraph also shows Amy's compassion towards animals.

23

Word Bank

Introduction

- cottony white clouds lined the sky
- · intense heat from the sun
- cool breeze ruffled her hair

Describing a situation where help is needed

General

- · sounds became more persistent
- whimpering softly

 | describes | desc
 - someone in less
- crying in a pitiful tone urgent need of help
- calling out in distress describes someone in more
- face twisted in agony someone in more urgent need of help

Note: Be careful to use these phrases appropriately depending on the events in your story!

Help arrives

- vehicle dispatched to the scene
- in the nick of time
- · heaved a sigh of relief
- filled with gratitude
- thanked them profusely
- all in a day's work







Feelings

Happiness

- humming a merry tune
- walked with a spring in her step
- over the moon
- face glowed with happiness

Focus

- craned my neck and strained my eyes
- listened intently

Surprise

- eyes widened in astonishment
- stood rooted to the ground in shock
- clapped her hand over her mouth to stifle a gasp

Conclusion

- heart swelled with pride
- newfound companion
- felt an instant fondness

