

Literacy and Numeracy

A to Z

A for Arctic



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About the Author: Annie is a very experienced and dedicated educator who has taught in both primary and secondary school settings in Queensland. While her earlier teaching career focused on Senior Biology and Chemistry, her more recent work is with Year 7 students. She enjoys writing and shares her love of meaningful picture books with others.



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Read the text below and then answer the following questions.

It's time for a cool holiday

Everyone knows that Australian holidays have become dull and predictable. Far too many of us are still spending our precious vacation time acting like sloths at the beach. Unfortunately, others continue to tolerate the notion that a summer barbeque with relatives is an enjoyable experience. Now is the time to break from tradition and try a holiday with a difference.

A trip to the Arctic Circle will not disappoint. Spectacular scenery awaits the avid photographer, as glorious icebergs, glaciers and sea ice surround you. The opportunity to capture images of polar bears in the wild as well as the lights dancing across the sky as part of the Northern Lights display will create memories that will last a lifetime.

Come join the growing number of people who are raving about the coolest holiday that they have ever been on!

1. Multiple choice – circle your answer. What type of text is this?

A. persuasive	B. narrative	C. procedural	D. descriptive
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2. Multiple choice – circle your answer. Who is the target audience for this text?

A. Adults with no children.	B. Adults with a particular interest in photography.
C. Adults with teenage children.	D. Adults who enjoy surfing.

3. Multiple choice – circle your answer. The phrase, '... acting like sloths at the beach', is an example of

A. a metaphor	B. onomatopoeia	C. alliteration	D. a simile	E. a contraction
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Look in the text to find antonyms for the following words.

4. winter	5. captivity	6. diminishing	7. luckily	8. destroy

9. Use the table below to calculate the total cost of hiring a toboggan, jacket and pants for two days and two sets of tyre chains for three days. All prices are shown in Swedish krona (kr). Show your working out.

Clothing and accessories	Cost (kr)	
	2 Days	3 Days
Jacket or pants	315	385
Jacket and pants	420	525
Tyre chains	322	367
Helmet	168	238
Toboggan	175	196

kr

10. Calculate the mean mass for the polar bears below. Show your working out.

Polar bear	Minko	Alva	Skadi	Rane
Mass (kg)	173	242	195	206

kg

11. Cindy cut a block of ice that measured 17cm by 4cm by 2.5cm. Calculate the volume of this ice block. Show your working out.

cm³

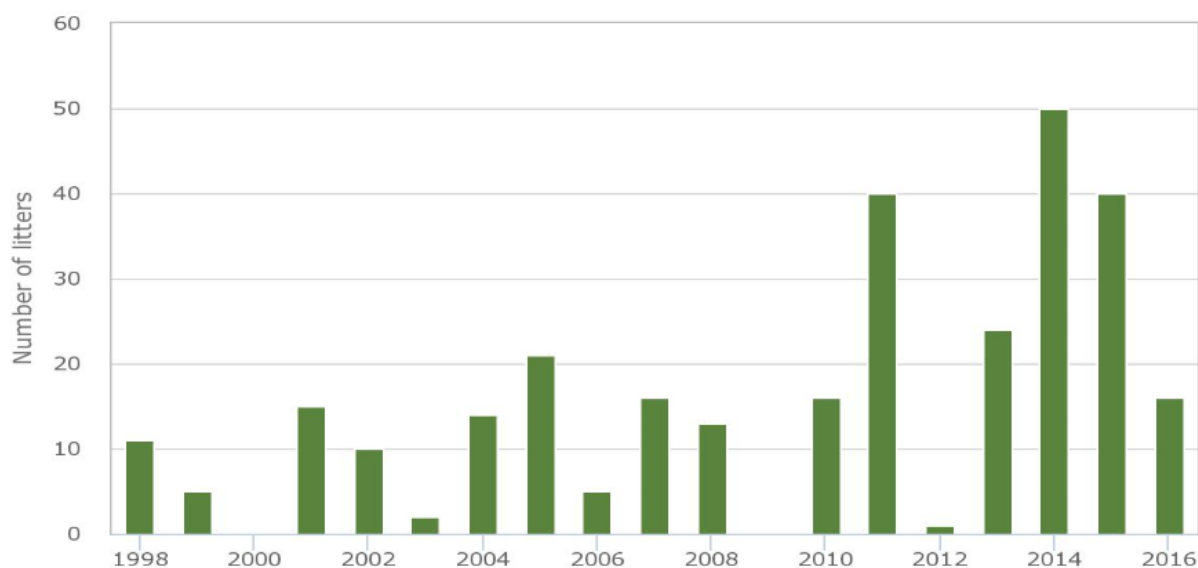
Circle the five (5) spelling errors in the passage below and then write the correct spelling in the boxes.

The Arctic fox is nativ to the polar regins in the Northern Hemisphere. Reproduction occers in the spring, but is dependant on the abundancy of food. Litters can somtimes contain up to twenty pups.

12.	13.	14.	15.	16.
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Study the graph below and then answer questions 17, 18 and 19.

The number of Arctic fox litters <https://binged.it/2CWxIYM>



Source: Norwegian institute for nature research (NINA) Licence: NLOD

17. How many Arctic fox litters were counted in 2011?

18. List, in ascending order, all of the positive composite factors for your answer from Question 17.

19. Calculate the number of Arctic fox litters counted in 2002 as a percentage of the number of litters counted in 2014. Show your working out.

The table below shows the flight times from Dubai to Norway in the Arctic Circle. Use this information to answer Questions 20, 21 and 22.

Flight	Departure Date and Time (Norway time)	Duration of flight
1	Sunday, 23 rd December, 07:45	7 hours and 15 mins
2	Sunday, 23 rd December, 14:50	7 hours and 42 mins
3	Monday, 24 th December, 11:23	8 hours and 5 mins

20. If you were on the first flight, what time would you arrive in Norway? Write your answer in 24-hour time.

21. Convert the duration of the second flight into minutes only. Show your working out.

22. Ingrid was on the third flight to attend a wedding in Norway on Christmas Day at noon. After arriving at the airport in Norway, how long did she have to wait before the wedding started? Show your working out. Express your answer in the form of hours and minutes. (2 marks)

hours and minutes

23. Calculate the temperature range between -8°C and 13°C .

Summary Sheet

Curriculum: Australian Curriculum
Series: Literacy and Numeracy A - Z
Topic: Arctic 2

Question	Australian Curriculum Reference	Australian Curriculum Statement
1	ACELA 1763	Texts rely on devices that signal text structure
2	ACELA 1490	Understand how texts vary in complexity and technicality based on the intended audience
3	ACELT 1611	Understand similes and metaphors
4	ACELY 1722	Use prior knowledge and text processing strategies to interpret texts
5	ACELY 1722	Use prior knowledge and text processing strategies to interpret texts
6	ACELY 1722	Use prior knowledge and text processing strategies to interpret texts
7	ACELY 1722	Use prior knowledge and text processing strategies to interpret texts
8	ACELY 1722	Use prior knowledge and text processing strategies to interpret texts
9	ACMNA 080	Carrying out calculations in another currency
10	ACMSP 171	Calculate the mean for a data set

Summary Sheet

Curriculum: Australian Curriculum
Series: Literacy and Numeracy A - Z
Topic Arctic 2

Question	Australian Curriculum Reference	Australian Curriculum Statement
11	ACMMG 160	Calculate volume of a rectangular prism
12	ACELA 1539	Understand how to use spelling rules
13	ACELA 1539	Understand how to use spelling rules
14	ACELA 1539	Understand how to use spelling rules
15	ACELA 1539	Understand how to use spelling rules
16	ACELA 1539	Understand how to use spelling rules
17	ACMSP 147	Interpret a range of data displays
18	ACMNA 122	Identify composite numbers
19	ACMNA 158	Express one quantity as a percentage of another
20	ACMMG 110	Compare 12- and 24- hour time and convert between them

Summary Sheet

Curriculum: Australian Curriculum
Series: Literacy and Numeracy A - Z
Topic Arctic 2

Question	Australian Curriculum Reference	Australian Curriculum Statement
21	ACMMG 085	Convert between units of time
22	ACMMG 139	Interpret and use timetables
23	ACMSP 171	Calculate the range for a data set

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Thank you for purchasing one of our series **Literacy and Numeracy - A to Z**.

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3. Interactive PDF with automatic marking for use on any computer
4. Australian Curriculum references for each question

2. Standard Class Group (students working at the expected level) – Year 7

1. Printable activity sheet for distribution to your class
2. Answer sheet and marking scheme for this activity sheet
3. Interactive PDF with automatic marking for use on any computer
4. Australian Curriculum references for each question

3. Challenge Class Group (students working at a higher level) – Year 8

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10. They are very suitable in traditional learning environments but also appropriate for a multi-age, high-top or home-schooling situation.



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Literacy and Numeracy – A to Z

Activity Sheets for Years 5 – 8

New for 2019

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4. Australian Curriculum references for each question

Features of these activity sheets:

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