



småles matters

BUG NEWS



Winter 2021



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God Jul, småles!

That means “Merry Christmas” in Swedish.
As winter arrives, follow us on our last journey for the year. We
learn more about this cold and magical season from pages 6
onwards and of course, the Christmas advent calendar is waiting
for you on pages 14 and 15.

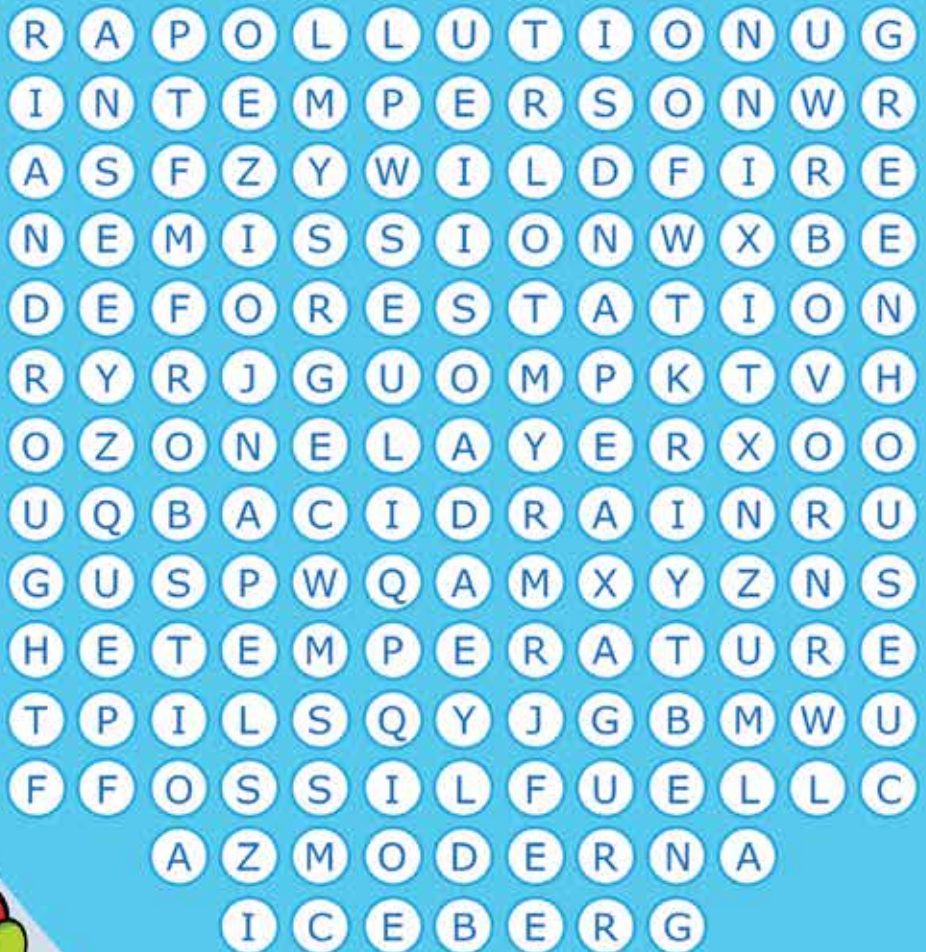
Time sure flies but we are glad to have your company throughout
the year. Have lots of fun and we wish you a great holiday season!

**With Big Bug hugs
Alex and Tampi**

EXCITING NEWS

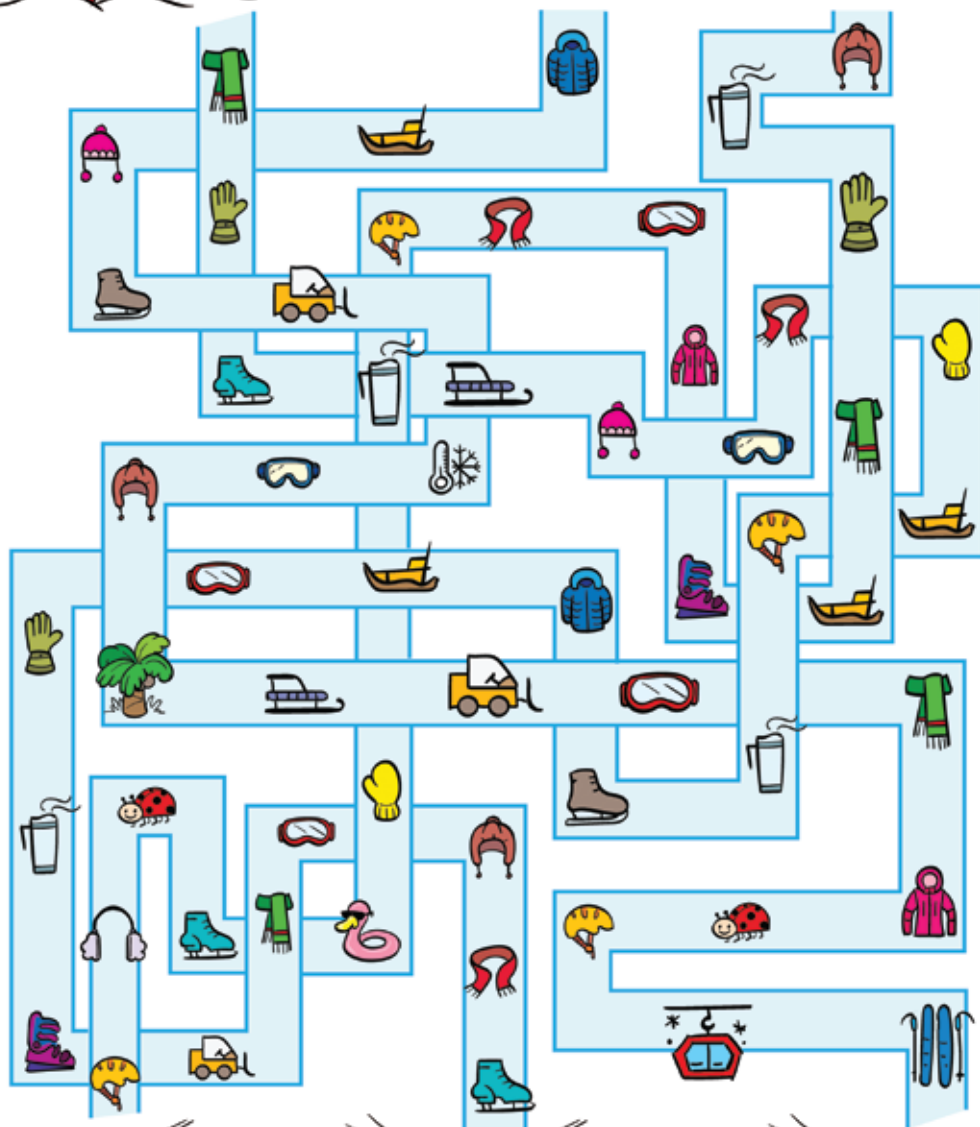
The bug house at IKEA Alexandra
will be reopening! Check out
smales.sg for more details.

Find the match for the words below.



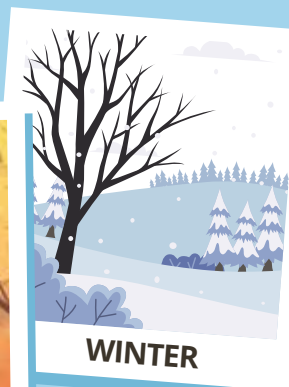
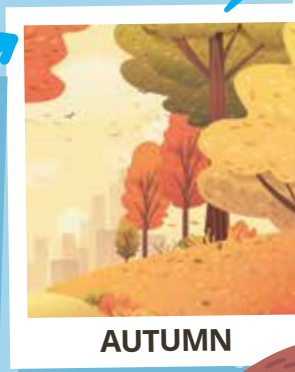
- DEFORESTATION • EMISSION • WILDFIRE • DROUGHT
- GREENHOUSE • SMOG • FOSSIL FUEL • ICEBERG • OZONE LAYER
- POLLUTION • ACID RAIN • TEMPERATURE

Help everyone find their way to the winter lodge



What is winter?

Winter is the coldest season of the year. The name 'Winter' comes from an old Germanic word that means "time of water" and refers to the rain and snow of winter in middle and high latitudes.



Countries that have winter all year around

Countries in the Northern Hemisphere (top half of earth) are more likely to experience a colder winter than those in the Southern Hemisphere (bottom half of earth).

In fact, all of the coldest countries in the world are located in the Northern Hemisphere. However, the coldest place on Earth is Antarctica, which is in the bottom half of earth!



Northern Hemisphere



Southern Hemisphere

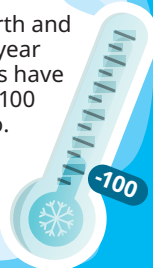


The coldest countries in the world



Antarctica

The coldest region on Earth and is covered in snow all year round. The temperatures have been known to fall to 100 degrees below zero.



Kazakhstan

There are many places in this country that are always covered in ice. During winter, the temperature goes below zero degrees.



RUSSIA

One of the largest countries in the world that stretches from Europe to Asia. It is very cold throughout the year and summer's temperatures can also go below zero degrees.



CANADA

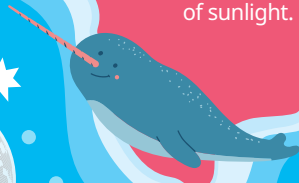
During winter, temperatures can drop to 40 degrees below zero.

In 1816, it was so cold that Canada did not have summer that year!



GREENLAND

This large northern land is surrounded by the ocean from all sides. During the winter, there can be as little as 3 hours of sunlight.



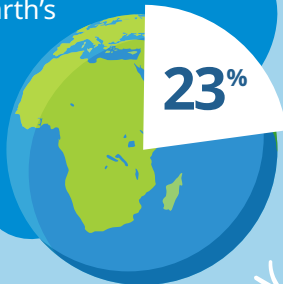
What is snow?

Snow is a form of water that crystallizes in the atmosphere and falls to the Earth, covering the Earth's surface permanently or temporarily.



Do You Know?

Snow covers about 23 percent of Earth's surface either permanently or temporarily.



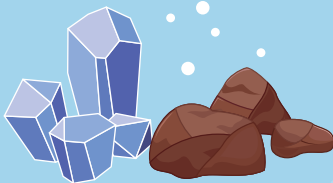
How does snow form?

Snow is formed when temperatures are low and there is water in the form of tiny ice crystals in the air. These tiny ice crystals in the clouds stick together to become snowflakes. If enough crystals stick together, they become heavy enough to fall to the ground.



Minerals found in snow

The main minerals of particles are **quartz** and **feldspar**.



Sizes of snow flakes

Snowflakes come in all shapes and sizes. The difference in size comes down to how cold the temperatures are when it is snowing.

Individual snow crystals are small, but sometimes they stick together and create much larger snowflakes. Most snowflakes are smaller than 0.5cm in diameter, but lake-effect snow can be of 1.2cm diameter or greater!

Do You Know?

The largest snowflakes fallen were during a storm in January 1887 at Fort Keogh, Montana, USA which one measured at 15 inches wide.



Types of snow

How many types of snow are there?

Fresh Snow

A fresh layer of snow where each crystal or snowflake can be seen. It is the type that we all love to put the first footprints in.



Compact Snow

Compact snow is when old snow which has either been walked on, driven on, or skied on, accumulates.



Powdery Snow

When the surface temperature is below freezing, the snowflakes do not start to melt upon reaching the ground. It is very hard to make snowballs from powder snow.



Wet Snow

It is when snowflakes start to melt before reaching the ground. Kids like wet snow as it is perfect for making snowballs.



Sources:

<https://www.metoffice.gov.uk/weather/learn-about/weather/types-of-weather/snow/how-does-snow-form>
<https://www.hilarispublisher.com/>
<https://simple.wikipedia.org/wiki/Snow>
<https://www.britannica.com/science/snow-weather>

<https://nsidc.org/cryosphere/snow/science/types.html>
<https://nsidc.org/cryosphere/snow/science/types.html>
<https://www.snowblowerguides.com/different-types-of-snow-ice/>
<https://google>

Fun things to do during the winter!

Build a snowman or snow fort

Stargazing

Pond hockey

Ice fishing

Snowshoeing

Skiing

Snow tubing

Sledding

Have a snowball fight

Ice skating

Fun Facts about winter season & snow

1

Winter is the coldest season.



2

Snow falls in winter.



3

Some trees stop growing in winter.



4

Snow is not white.



5

The sun looks bigger in winter.



6

Sometimes snowballs form by themselves.



7

Some animals hibernate in the winter.



8

Every snowflake has six sides.



9

Nights are longer in the winter.



10

Snow can be eaten.





Spot the difference

Can you spot 20 differences?
Circle and number each
difference you can find!



Send in your answers with your name, Smålish passport, number, age, address and contact number to alexandtampi@smales.com.sg by 18 December 2021. 15 lucky winners will each win a pair of ERFORDRA decoration horse (Green/Blue or Red/Orange).



Countdown to Christmas!
Exciting thing to do and
share with your loved ones
before Christmas!

1 Dec



It's the holidays!
Give your family members a
big, big hugs and tell them
"I love you very much"

2 Dec

Make a wish list
with 10 things you
want to do in 2022



3 Dec



Decorate your
Christmas tree

4 Dec



Read a book about
Christmas stories

5 Dec

Enjoy a great
meal with
your family
members



6 Dec

Write a letter
to Santa



7 Dec

**THANK
YOU**

Make "Thank you" notes
for your loved ones

8 Dec



Dance to a
Christmas song

9 Dec



Make a DIY
Christmas craft

10 Dec



14

11 Dec



Learn a new
Christmas song

12 Dec



Donate your
good quality
toys after spring
cleaning your room

13 Dec

Share a joke with your friends:
What do you call Santa when he stops moving?
- Santa pause



14 Dec

Wrap your presents with recycled papers



15 Dec

Dance to a Christmas song



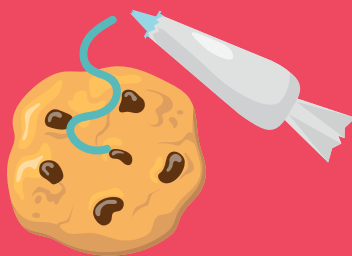
16 Dec



Make some homemade cookies

17 Dec

Decorate your cookies



18 Dec

Make Gingerbread house with your family!
(Available at Swedish Food Markets)



19 Dec



Make delicious hot chocolate with your loved ones

20 Dec

Make homemade greeting cards



21 Dec

Watch a Christmas movie with your whole family



22 Dec

Share your cookies with your neighbors



23 Dec

Spend quality time with your loved ones



24 Dec

Take a picture with your family on the eve night



Effects of global warming

Global warming is the long-term heating of Earth's climate system due to human activities such as primarily fossil fuel burning. These activities release greenhouse gases that get trapped in the Earth's atmosphere and increase earth's temperature.

There are some natural activities such as volcanic eruption that also contribute to climate change.



More Snowfall

With a warmer climate, more water would evaporate into the atmosphere. During other seasons, this can cause floods. However, during winter more snowflakes can form in the sky and instead of downpours, we get massive winter storms.



Colder weather

Through the burning of fossil fuels, people have heated the planet by more than 1 degrees Celsius. The decade from 2010 to 2019 was the hottest on record. Climate change, however, it doesn't only lead to higher temperatures, but more extreme weather.



Risks in Winter



Car Accidents

Most car accidents happen due to certain factors. Among them are icy roads, poor visibility, tired and snow.



Hypothermia

It happens when your body loses heat faster than it can produce it. Once your body core temperature falls below 35.0 °C, your heart, nervous system and other organs will slowly stop working.



Frostbite

Frostbite is a skin injury that happens when our skin is exposed to extreme low temperatures and starts freezing up. The commonly affected areas are our fingers, toes, nose, ears, cheeks and chin area.

Carbon Monoxide Poisoning

People use unfiltered furnaces or portable generators to stay warm. Such devices may release carbon monoxide, a colorless, odorless, tasteless, flammable gas into the room. If someone breathes in too much, they will fall very ill or even lose their lives.



Heart Attacks

Heart attacks are very common in the winter. Having the flu or any other sort of illness also puts you at an increased risk for a heart attack.

Sources:

<https://www.earthnetworks.com/blog/the-5-biggest-winter-weather-risks-and-how-to-protect-yourself/>
https://healthcare.utah.edu/the-scope/shows.php?shows=0_zr1g4bsz
<https://en.wikipedia.org/wiki/Hypothermia>
<https://climate.nasa.gov/resources/global-warming-vs-climate-change>

INBOX @ SMALES

Best Drawing



Yeo Li Wen, 12 years old

Summer's theme:

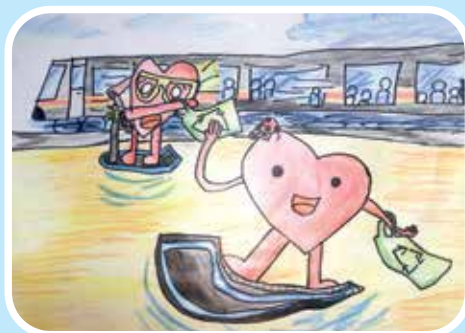
Alex and Tampi are going out to get some grocery. Draw the transport you think they took to get there. Be as creative as you can be.



Sofia Lim WH, 11 years old



Hanna Wong, 11 years old



Kaylyn Yeo, 11 years old

A whimsical illustration of a summer scene. In the upper right, a large orange and yellow hot air balloon with a scalloped pattern floats in a light blue sky. To its left, a small brown bird with a white belly is in flight. The foreground is filled with green grass and numerous white daisies with yellow centers. A large, soft white cloud is on the left side of the image. Small pink and blue flowers are scattered throughout the scene.

Summer's theme:

Alex and Tampi decided to take a kayaking trip. While paddling along the river, their kayak hit something! What do you think it is?

Best letter

"Thud!" The red smales kayak stopped in front of an enormous scaly rock. Alex claimed to hear the rock breathing but Tampi could not hear anything. Suddenly, the rock grew legs and turned around! "Aargh!" They shrieked. Was this really a rock or just a prank? Well, both estimations were wrong. The sight was a prehistoric creature! "I hate to admit, Tampi I think I am seeing a dinosaur?!" Said Alex. "But weren't they extinct long ago?" Tampi exclaimed! The creature spoke up. "Hi, Alex and Tampi, I am Frank, an Ikea raptor, the only species of dinosaurs that aren't extinct. Well, hop on! You look tired from kayaking! I will take you to Ikea land so you can meet my friends!" Frank said, lowering its head. As Alex and Tampi hopped on Frank, infinite questions flooded into their minds. They did not know where to start.

Pradyun Ashokraj, 11 years old

From far, it looked like a silver circled object. Alex, who was enthusiastic about finding anything new, quickly picked it up and placed it in the kayak. He admired it while both of them paddled back to the riverbank. Along the riverbank, they inspected the object and realised that it was a capsule. Just as Alex was thinking what was inside, Tampi pressed something, and the capsule opened up. It was a ginormous pink egg. Wide eye, they wondered who this egg belonged to. Alex picked it up gingerly. Out of a sudden, the egg started to crack. Out came an adorable green alien-like creature, with a grin on its face.

Tan Jie Hao Jaden, 12 years old

INBOX @ SMALES



Last issue's theme:

Alex and Tampi are recycling old items to build their sustainability mascot.
How do you think their mascot turned out?



Dayna Zaid, 12 years old



Lim Jaay, 10 years old



Lim Yuan De, 10 years old



Tai Mei En, 11 years old

**Alex and Tampi are building a snowman.
How do you think the snowman will look like?**

Include your name, Smålish passport number, age, address and contact number, and send your drawing to alexandtampi@smales.com.sg by 18 December 2021. 1 lucky winner will win a GOSIG GOLDEN RETRIEVER Soft Toy.





Alex and Tampi were on their way to the forest for a picnic. As they arrived, Tampi gasped in horror and the brothers could smell something burning! Smoke filled the two brothers' lungs and they sputtered and coughed. Soon, they realised that the flames were coming from one of the trees in front of them. Quickly, Alex reached into his bag and pulled out a bucket. "I'm always prepared," he said with a smile. They rushed to a nearby lake and the bucket was dipped into the water hastily. Together, Alex and Tampi ran back to throw the water over the burning tree. The flames began to die down and after one more trip to the lake and back, the fire was put out completely. The two brothers smiled at each other gleefully. "We just saved a whole forest," said Tampi, satisfied. Alex added triumphantly, "And everything in it!"

Cherish Kate Ong, 10 years old

Last issue's theme:

Alex and Tampi are on the way to the forest for a picnic. As they arrived, Tampi gasped in horror and the brothers could smell... What do you think was at the picnic site and what did they do?

Alex and Tampi are on the way to a forest for a picnic. As they arrived, Tampi gasped in horror and the brothers could smell something horrifying! They looked around and saw a man smoking. "Stop smoking! You are harming both your body and the environment!" Tampi chided. "Huh, why should I care about you two?" The man glared at the two of them and continued smoking. "Hmm, what should we do to let the man stop smoking?" Alex wondered while pinching his nose. After a while, Alex and Tampi decided to dress up as professionals to inform the man about the negative impacts on smoking. "Sir, let me tell you some tips about smoking. Smoking has a lot of bad effects. Instead of smoking, you could do other activities like exercising, spending time with family and friends and many more!" Tampi said as Alex gently coaxed the man to throw the cigarette in the bin. Alex and Tampi invited the man to have a picnic with them and the trio decided on a spot for their picnic. Alex and Tampi felt a sense of accomplishment as they managed to convince someone to quit smoking. Even though that was only one person, but one action would lead to another, and hopefully soon, the world might be free of smoking one day!

Ophelia Ngu Zhi Qing, 11 years old

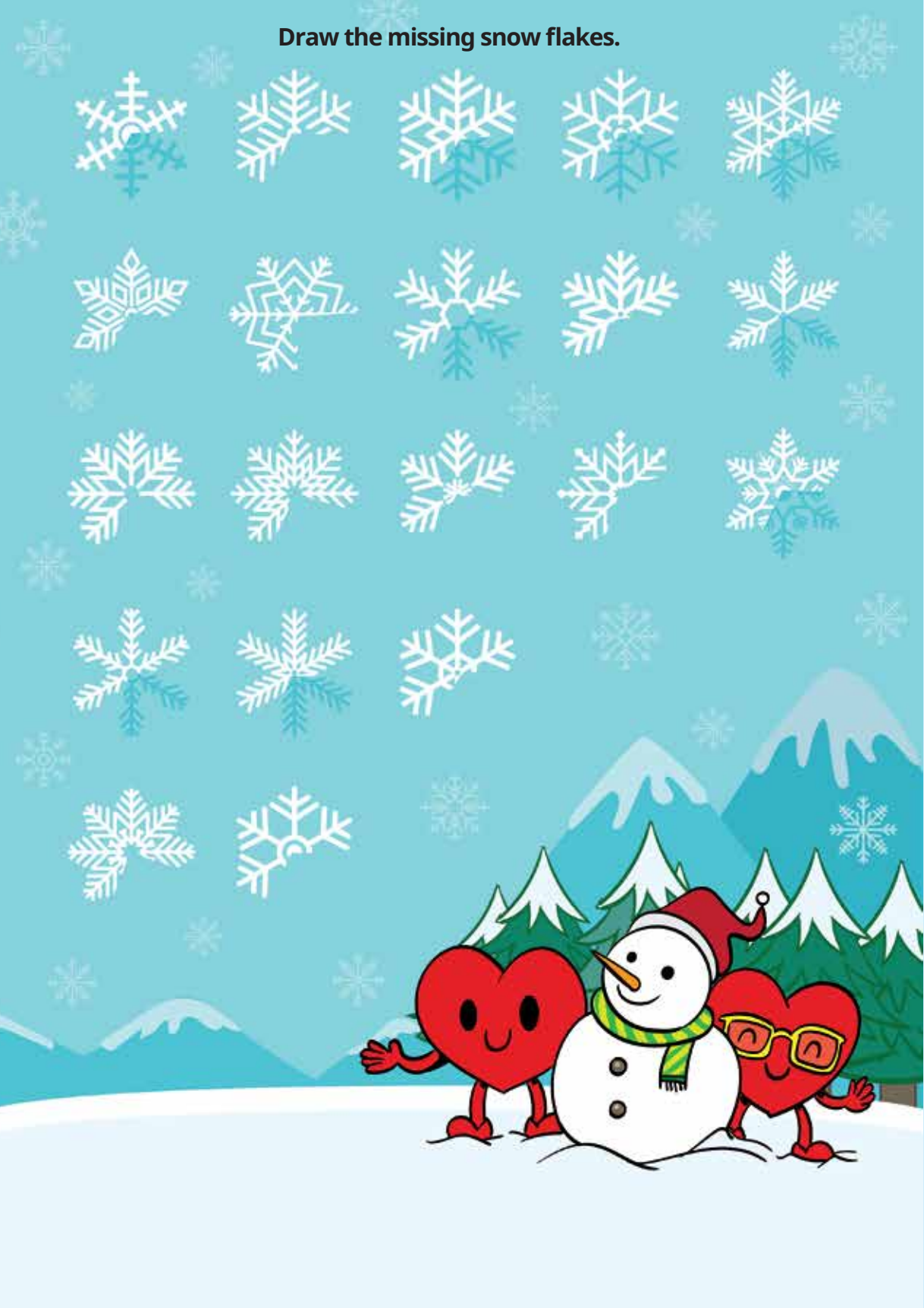
Alex and Tampi went to the frozen lake near their home and decided to do ice-fishing. They made a small hole to throw in the fishing line. Within minutes, they felt something tugging strongly at the end of the line.

What do you think it was?

In no more than 150 words, include your name, Smålish passport number, age, address, and contact number and send your letter to **alexandtampi@smales.com.sg** by 18 December 2021. 1 lucky winner will win a set of BOKLIG BOOK.



Draw the missing snow flakes.





**Wreck this
page**

Fill this page with the most creative
snowballs you can imagine.