Mrs Steel

YEAR 4

LEARNING

- FROM -

HOME

Mrs Steel

Deep-sea Diving - Editing

Add editing marks to text. There are 20 errors.

the deep-see diver looked nervously at the ocean around him One by one, waves crashed into the side of his rocking boat. in a few seconds, he was going to have to enter these dangerus waters. He anxiously put on his goggles flippers and oxyjen mask he dived into the frezing waters below and hoped for the best.

he felt the icy water cover him like a blanket. Rainbow fish darted in and out of the coral For a few minutes he feeled calm and happy. Sudenly, a giant shark apeared out of nowhere the diver swam furiously back towards his boat. He decided never to dive in this part of the oshean ever again

Editing Marks:	
Capital letter	≡
End punctuation	⊙ ! ?
Insert a word	ʎ
Change to lower case	/ l.c.
Take something out	⌀
Check spelling	SP ⬭
New paragraph	¶

Re-write the text correctly:

teachstarter

teachstarter

Professor Fizz's Potion - Editing

Add editing marks to text. There are 20 errors.

professor fizz clutched the miracle potion in his gloved hand. for many days and nights, he had been trying to purfect this recipe. Now that the brew was exactly write, it was time for a test removing his gloves, he pulled the cork from the top of the bubling beaker. In one gulp, he drunk the entire potion and waited

Almost immediately Professor Fizz began to feel verry strange. In a matter of seconds, his eyes started to feel very hot The hairs on his arms and legs started to twich. While that were happening, he heard a strange whistling sound comming from inside his ears. professor Fizz hoped that he wouldnt have any more strange re-actions to his potion

Editing Marks:	
Capital letter	≡
End punctuation	⊙ ! ?
Insert a word	ʎ
Change to lower case	/ l.c.
Take something out	⌐
Check spelling	SP ⬭
New paragraph	¶

Re-write the text correctly:

teachstarter

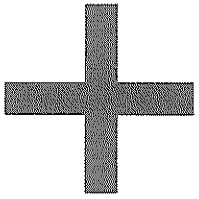
teachstarter

Nelly the Nurse

Nelly the Nurse worked at the Little Village Hospital, where she helped Doctor Donald look after the sick patients. The best part of her day was when she walked around the hospital to visit all the patients and give them a lollypop.

Sometimes Nelly the Nurse would wear a cape to work, so she could fly around the wards cheering everyone up. She would sing songs, tell jokes and make up silly stories for them. Some patients would laugh so much that their stitches would come apart! It didn't matter though; Nelly the Nurse would just stitch them back up again.

Doctor Donald enjoyed having Nelly the Nurse as his helper. He always gave her special jobs to do. Each year on her birthday, Doctor Donald would buy Nelly the Nurse a gigantic chocolate cake, just to show her that she was special.



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Distinguish Between Real and Make-Believe

Nelly the Nurse

1. Which of these statements **could not** really happen?
   a) a nurse working at a hospital
   b) a doctor looking after sick patients
   c) a nurse giving sick patients a lollypop every day
2. Which of these statements **could not** really happen?
   a) a nurse wearing a cape
   b) a nurse trying to cheer people up
   c) a nurse flying
3. Which of these statements **could** really happen?
   a) a nurse making a patient split their stitches
   b) a nurse getting a cake for her birthday
   c) only having one nurse and one doctor in a hospital
4. Is this story real or make-believe?
   List three pieces of evidence to support your answer.

CRAZY CREATIVE CHALLENGE

Research hospital clowns and create a poster outlining what they do.

Comprehension Task

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Name _____ Date _____

Nelly the Nurse

1. Which of these statements **could not** really happen?
   a) a nurse working at a hospital
   b) a doctor looking after sick patients
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2. Which of these statements **could** not really happen?
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4. Is this story real or make-believe?
   List three pieces of evidence to support your answer.

_____

_____

_____

_____

_____

_____

Exercise is Cool!

Exercise boosts brainpower

Exercise helps you to think clearer, which means you can concentrate better in class and learn more.

Exercise gives you more energy

If you exercise throughout the day, you will improve your strength, which means you will have more energy.

Exercise helps stop you from getting sick

Exercise leads you to feel healthier, which means that your body is more likely to fight off colds and illnesses.

Exercise pumps up your heart

Not only does exercise stop you from getting sick, but it also helps strengthen your heart.

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Exercise is Cool!

1. Write an opinion about exercise boosting brainpower.
2. Write an opinion about exercise giving you more energy.
3. Write an opinion about exercise helping to stop you from getting sick.
4. Write an opinion about exercise helping to pump up your heart.

CRAZY CREATIVE CHALLENGE

Make a list of all of the ways that you exercise throughout the day.

Create an exercise plan, using items found around the house or classroom, that you can do each day.

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Name _____ Date _____

Exercise is Cool!

1. Write an opinion about exercise boosting brainpower.

2. Write an opinion about exercise giving you more energy.

3. Write an opinion about exercise helping to stop you from getting sick.

4. Write an opinion about exercise helping to pump up your heart.

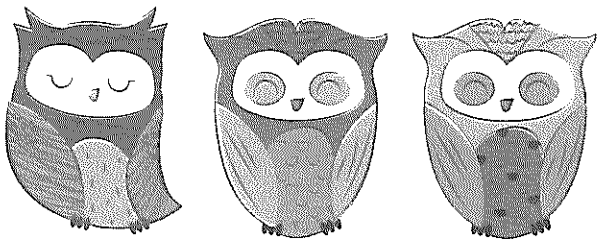
The Great Wise Owl

Owls are known as the bird of prey. They are nocturnal, which means they sleep during the day and hunt for their prey at night.

Owls have forward-facing eyes and a hooded beak. As they do not have teeth, they use their sharp beak to help them tear apart their food. They also have powerful claws which help them to catch their prey. The colour of an owl's feathers can be brown, grey, white and black. The mix of colours provides a nice camouflage for the owl in their environment.

There are more than 200 species of owls that live in deserts, mountain areas, open grasslands and forests. Owls are carnivores, which means they eat meat. They hunt insects, small mammals and other small birds during the night.

Owls most commonly lay between three and four eggs. They are white and round. The eggs do not hatch at the same time. The life span of an owl is approximately twenty years.



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Find the Main Idea

The Great Wise Owl

1. What is the main idea of this text?
2. What are three details that support the main idea?
3. Carefully read the text.

   Underline any words which are repeated, or seem important. Write them down.
4. Another good title for this text could be.

   a) My Pet Owl.

   b) All about the Owl.

   c) Oliver the Owl.

   d) The Story of the Very Wise Owl.

CRAZY CREATIVE CHALLENGE

Using the information in this text, create a story map for a narrative about a wise old owl and a little girl.

Comprehension Task

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Name _____ Date _____

The Great Wise Owl

1. What is the main idea of this text?

_____

_____

_____

_____

2. What are three details that support the main idea?

Detail 1: _____

_____

Detail 2: _____

_____

Detail 3: _____

_____

3. Carefully read the text.
Underline any words which are repeated, or seem important. Write them down.

_____

_____

_____

_____

4. Another good title for this text could be

a) My Pet Owl.

b) All about the Owl.

c) Oliver the Owl.

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The History of the Cacao Bean

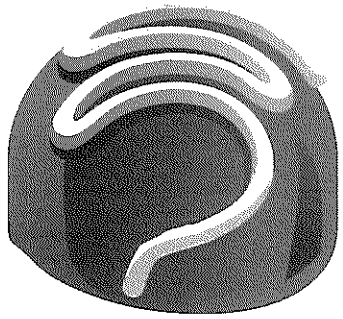
Chocolate has been around for thousands of years. It did not start as the sweet treat we know it as today.

Chocolate comes from cacao trees. These trees were originally grown by Maya Indians in Mexico around 600 AD. Pods grow from the trunk of a cacao tree. Inside the pods are small cacao beans. These beans are used to make chocolate.

Cacao beans were very valuable in the 1500s when the Aztecs took rule over Mexico. They were used as a form of currency and for paying taxes. Wealthy people used cacao beans to make a bitter drink. They enhanced the taste of the drink by adding flowers, vanilla and honey.

In the 1500s, a Spanish explorer, named Herman Cortes, travelled to Mexico and discovered the cacao drink of the Aztecs. He took the cacao beans back to Spain with him. In Spain, people began adding sugar to the bitter drink to make it enjoyable and sweet.

By the 1800s, alkaline salts were added and fats were removed from a powdered form of the cacao bean by Dutch chemist, Joseph Fry. Fry had created the first modern chocolate bar.



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Recall Facts and Details

The History of the Cacao Bean

1. Who first started growing cacao trees?

   When were they first grown?

   Where were they first gown?

2. Before they were made into a sweet treat, what were cacao beans used for?

3. How did the Spanish change the cacao drink of the Aztecs?

4. Who created the first chocolate bar?

   What did he do as part of the making process?

CRAZY CREATIVE CHALLENGE

Research what a cacao tree looks like.

Use the text and your research to draw and label a cacao tree to help explain where chocolate comes from.

Comprehension Task

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Name _____ Date _____

The History of the Cacao Bean

1. Who first started growing cacao trees?
   When were they first grown?
   Where were they first grown?

2. Before they were made into a sweet treat, what were cacao beans used for?

3. How did the Spanish change the cacao drink of the Aztecs?

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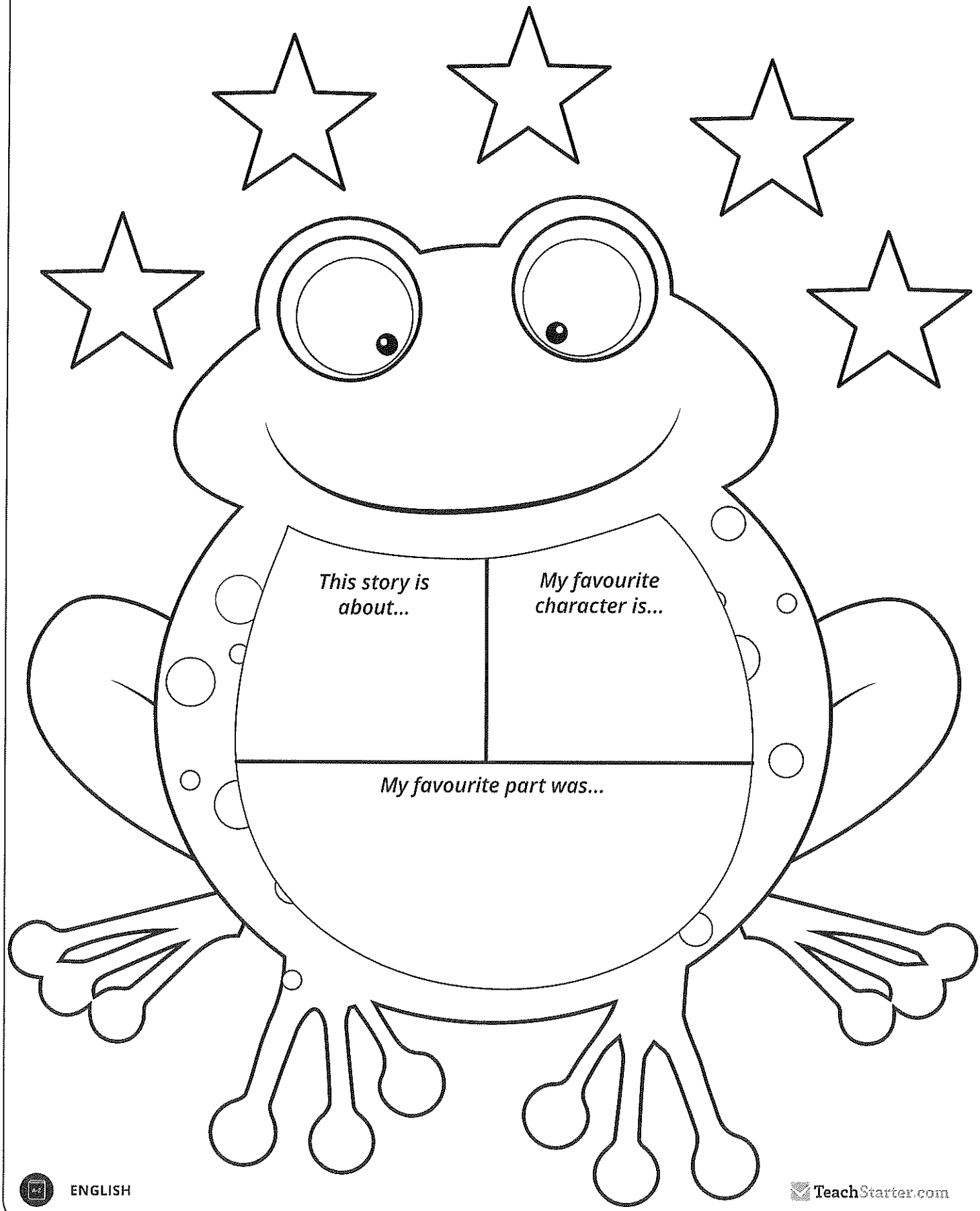
   What did he do as part of the making process?

Student: _____

My Book Report for

_____



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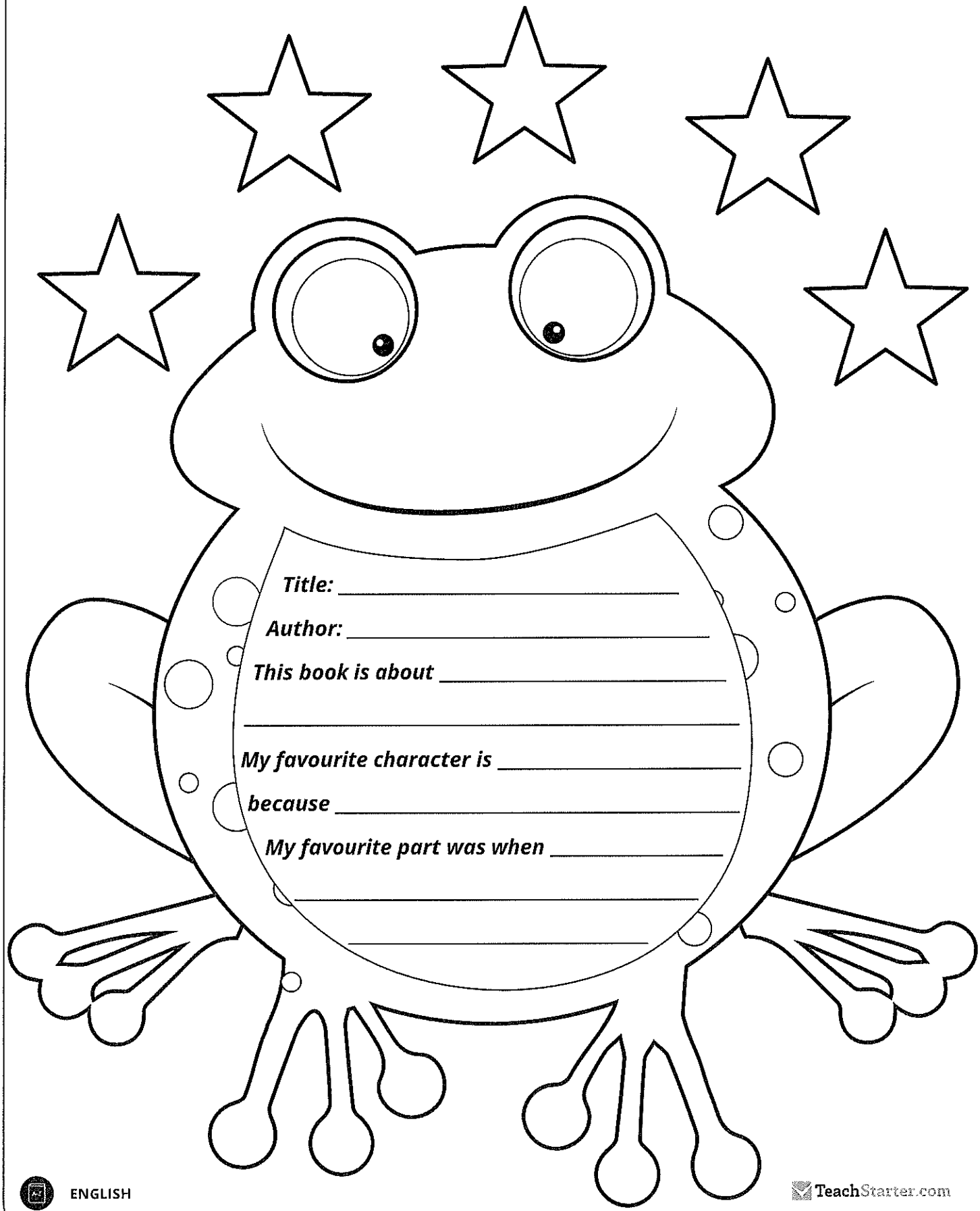
Student: _____

My Book Report



Title: _____

Author: _____

This book is about _____

_____

My favourite character is _____

because _____

My favourite part was when _____

_____

_____

Name _____ Date _____

What is a Sentence?

Use colours to match a sentence beginning (the first column of boxes) with a sentence ending (the second column of boxes). Make a meaningful sentence.

The rabbit that is hopping around the yard	around the horse track.
The bunch of red roses	in their bee hives.
The lion is roaring	is in a purple vase.
Bees make honey	is brown and white.
The little white kitten was waiting patiently	in the cage.
The horse galloped	by its food bowl.

Write your own sentence. Make sure your sentence has a subject and a verb.

_____

_____

_____

_____

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Name _____ Date _____

Simple Sentences

Underline the subject and the verb in these simple sentences.

- The hamster ran around the hamster wheel.
- Scientists have discovered a new planet.
- The boy ate a hamburger.
- We have singing rehearsals before school.
- Birds wash themselves in our bird bath.
- Tom can read chapter books.
- I went to the beach.

Use the correct word from the word bank to complete the sentences.

bananas	football	plane	pool
bike	trains	apples	dog

I like to eat _____.

My brother likes to play with his toy _____.

Evie went swimming in the school _____.

The jet _____ has two wings.

My _____ team won the final match on the weekend.

There were ten red _____ ready to be picked.

I went for a long ride on my _____.

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Name _____ Date _____

Compound Sentences

Choose which coordinating conjunction works best to join the simple sentences together to make a compound sentence.

so	and
but	yet

I would like to go to the football game _____ I don't have a ticket.

Jane is coming over _____ we can go swimming in my pool.

The children went for a bushwalk _____ they saw many different types of birds.

I like orange juice _____ Susie likes apple juice.

It was late at night _____ the weather was hot.

Jack doesn't like to eat vegetables _____ he likes to eat meat.

Rewrite the sentences below to create a compound sentence.

The boy painted with blue paint. He painted with yellow paint.

_____

_____

_____

Zack ran fast. Tom ran faster.

_____

_____

_____

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Name _____ Date _____

Complex Sentences

Choose which subordinating conjunction works best to join the clauses together to make a complex sentence.

unless	that	despite
which	when	while

Beetles keep their wings folded _____ they are flying.

My grandma made a chocolate cake _____ everyone enjoyed.

I will make the beds _____ you cook breakfast.

He returned his book to the library _____ he was finished with it.

Here is the basketball _____ you lost yesterday.

My soccer team still played yesterday _____ it raining heavily.

Highlight the independent clause that can stand alone as a sentence.

When the town flooded many properties were damaged.

Once the sun goes down it is time to come home.

The children saw many exhibits when they went on their excursion.

We enjoyed playing on the beach even though it was cold.

I did not see Scott today because he was playing football.

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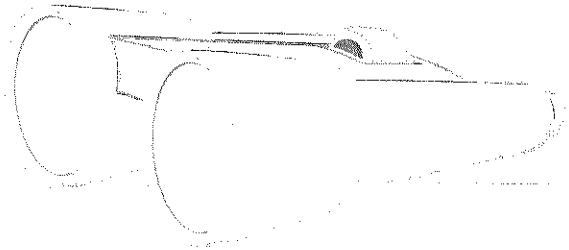


"Caught you!"

Today you are going to write a narrative (a story).

The topic you have been given for your narrative is "Caught you!".

Think:

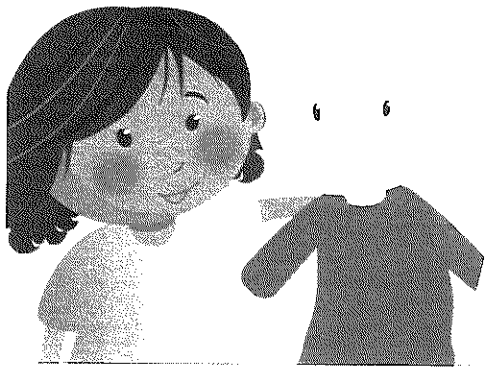
What do you want your story to be about? Who has been caught? What were they caught doing? You might write a story about someone caught doing the wrong thing or even a game that was being played between friends.

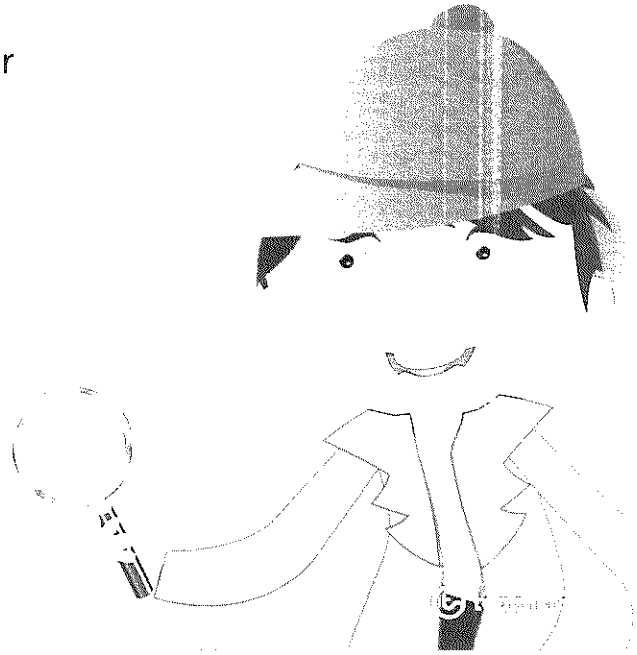
Plan:

Plan your writing before you begin and decide who your characters are, the setting of your story, the complication or problem and how it is solved and how the story will end.

Remember to check:

- your spelling and punctuation is all correct
- that you have used sentences
- that you have stayed on topic
- that you have edited your writing.





Narrative Planning Template

Title _____

Orientation

Setting	Characters	Mood

Complication

Events and Climax

Resolution

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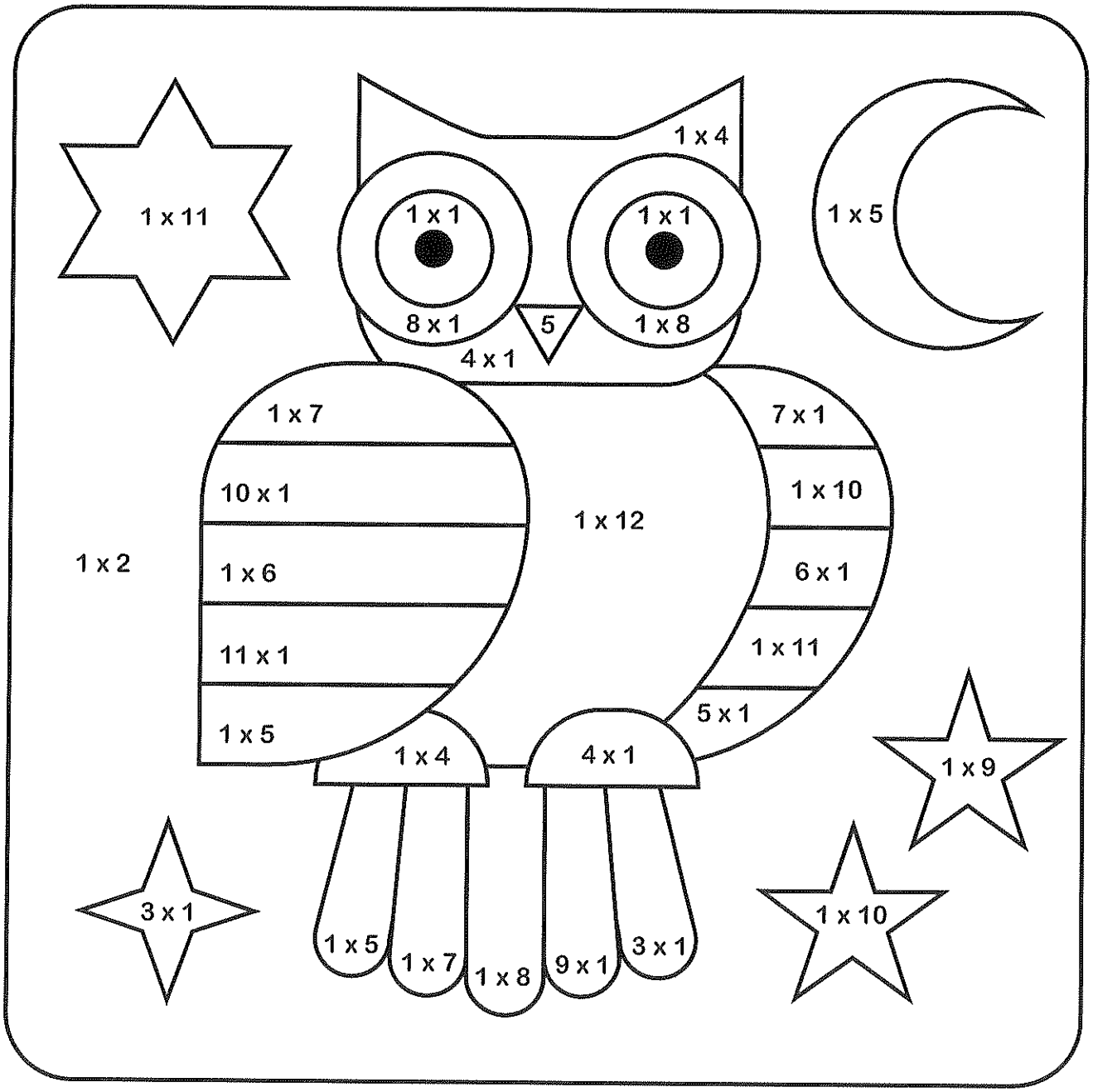
Name: _____ Date: _____

1 x Colour Fun!

Find the answer to the multiplication number sentence and then colour that section the corresponding colour.



1	white	5	yellow	9	pink
2	black	6	dark green	10	light blue
3	red	7	dark blue	11	light green
4	orange	8	purple	12	brown

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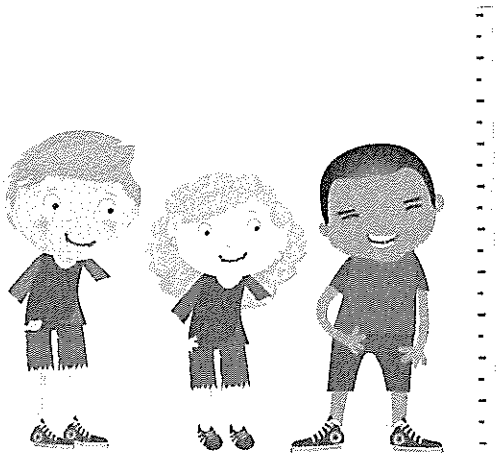
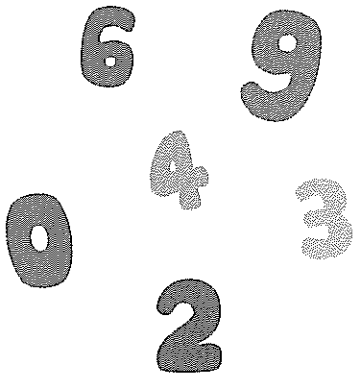
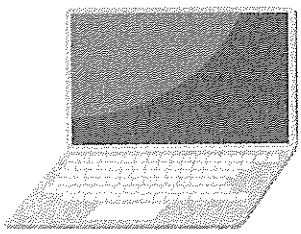
1. Shinji is 182 cm tall. Jane is 169 cm tall. If Brian is 15 cm taller than Jane, what is the combined height of all three people?



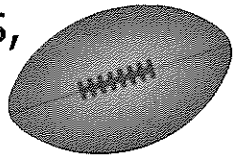
2. What is the difference between the largest and smallest number that can be made with the digits 6, 4, 9, 3, 0, 2?



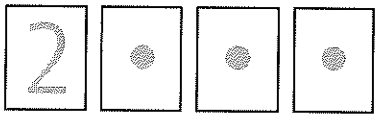
3. Janine wanted to buy a new laptop. The laptop costs $1299, but has been reduced by $249. If Janine has $3423 in savings, how much money will she have left after she purchases the discounted laptop?



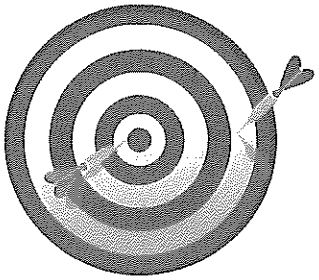
4. The red team played five games of football. They lost the first game 1-3. They won the second and third games 2-1 and 4-0 respectively. The fourth game was a 2-2 draw. If they scored 12 goals and conceded 7 over the five games, what was the score of the last game?



Mohammad has forgotten his password! He knows the first number and had written down sums to calculate the other three numbers. The third number equals the second number plus the first. The fourth number equals the third number minus 2. The second number equals the first number plus 4. If the first number is 2, what is the password?



6. In a game of darts, my opponent had scored 321 points. I was 126 points behind my opponent and then scored the following points: 60, 6, 5, 3, 18, 5, 14, 22. Am I winning or losing?

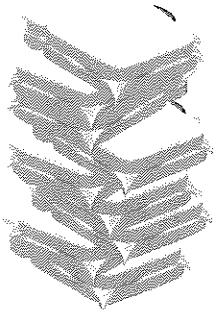


7. Neil decided to train for cross-country. On the first day of training he ran 3.2 km. On the second day he ran 5.4 km. On the 3rd and 4th day he ran a total of 8.9 km. If he ran 22 km in total after five days of training, how far did he run on the fifth day?

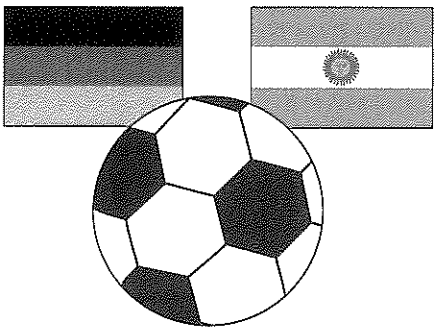
8. There were 93 people on the high-speed train. 23 got off at the first station and 48 got off at the third station. If there are 5 people left on the train at the fourth station, how many got off at the second station?

9. A shop buys skateboards for $83 and sells them for $159.95. If they have a sale and sell them for $20 less, what is the profit on each skateboard sold?

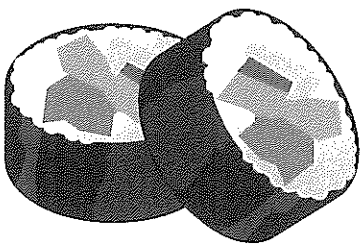
10. How many sandwiches were sold in total? 15 chicken were sold. Vegetarian sold 8 less than chicken. Beef was the most popular sandwich and sold 14 more than vegetarian.



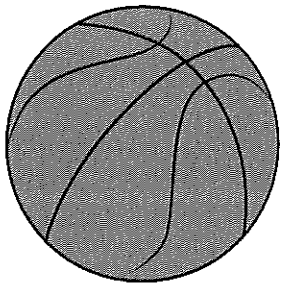
11. A total of 96 239 fans attended the grand final of the World Cup. If 36 829 supported Germany and 48 293 supported Argentina, how many neutral supporters were in the stadium?



12. Susan loves sushi! She ordered a plate with 4 chicken and avocado rolls, 6 California rolls and 3 prawn rolls. Her second plate had two less of each. How many sushi rolls did she have in total?



13. Kevin is great at basketball. His team scored 24 points in the first quarter, 32 in the second, 19 in the third and 25 in the fourth. If his team mates scored 54 points, how many points did Kevin score?



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14. Jill's family fly 8 432 km to arrive at their favourite holiday destination. They are in mid-air and have flown 6 212 km. If the plane's tank of fuel can allow it to fly for 12 000 km, how much further could they fly from their current location?

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15. The class had their biggest exam of the year. The first half of the exam took 1 hour 40 minutes. They were allowed a 30 minute break before beginning the second part of the exam. If the exam began at 11.00 am and finished at 2.00 pm, how long did the second half of the exam take?

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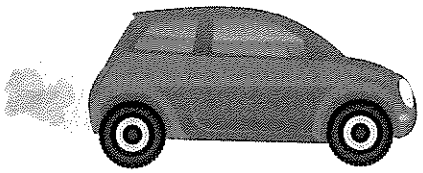
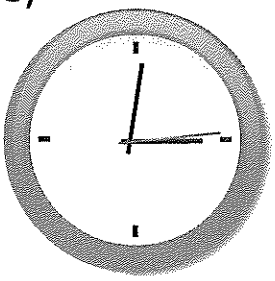
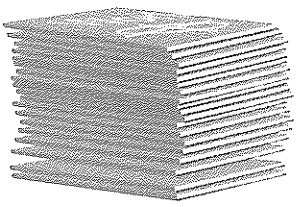
The car's tank had 8.2 L of fuel remaining. It used 1.8 L driving to the supermarket and 2.4 L driving to the beach. If it needs 6 L to travel to the petrol station, will it make it without running out of fuel?



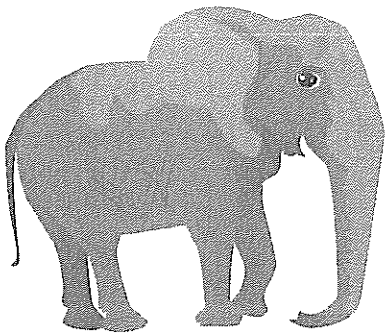
17. Scott wanted to get to work at 8.00 am sharp. He stops at the shops for 13 minutes, after walking for 19 minutes. He then catches a bus for 32 minutes, then walks an additional 6 minutes. What time does he leave home?



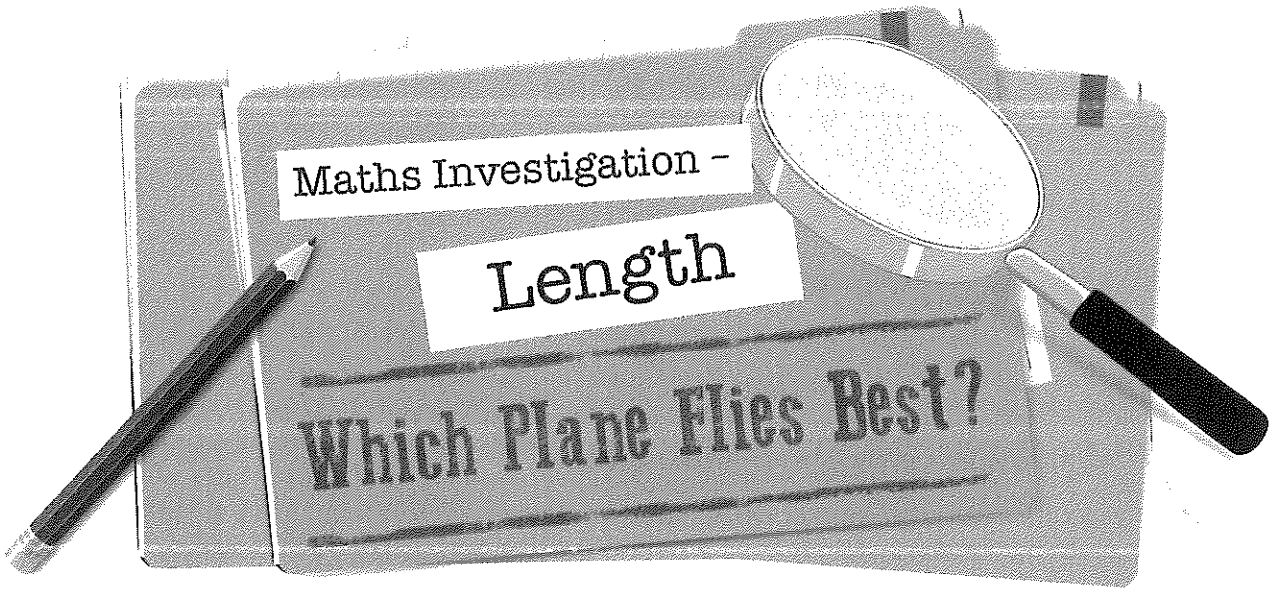
18. The book stand sold 678 magazines in the first month and 46 less than that in the second month. How many magazines did they sell in these two months?



19. There are 88 elephants in the herd. 36 are male adults and 23 are children of which 10 are male. How many females are there in the herd?



20. On Monday, Jose had 198 apples, 139 oranges, and 55 pears available at his shop. That day, he sold 15 apples, 22 oranges, and 18 pears. How many pieces of fruit were remaining on Tuesday?



The Scenario

Every year, your town holds a paper plane flying competition. Children design their own paper planes, then fly them against each other. The designer of the paper plane that flies the furthest is the winner!

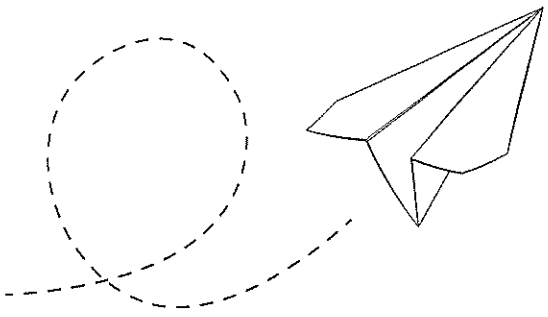
This year, you are finally old enough to enter the competition. There is only one problem - you have designed three different paper planes and you can't decide which one to enter in the competition!

You have decided to test all three of your paper plane designs to see which one flies the furthest. You will accurately measure and record the distance flown by each paper plane, then use the information to make a decision about which design to enter in the competition.

The Task

Design three different paper planes to test for the paper plane flying competition.

Follow the competition rules, set out below.



Competition Rules

- Each paper plane must be constructed from a single piece of A4 paper.
- The exterior of the paper plane may be decorated using pencils or markers only.
- Attachments of any kind are not permitted.
- The use of tape, glue or adhesives of any kind is not permitted.
- Rips may be made in the paper plane by hand. The use of scissors is not permitted.

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The Procedure

1. Check your understanding of the task

Carefully read through the task and the list of competition rules. If there are any instructions that you do not understand, ask your teacher to explain them to you.

2. Design and construct your paper planes

Design, construct and decorate three different paper planes. Draw or take a photograph of each design to be recorded on the Designing and Constructing Worksheet. Remember to follow to competition rules throughout the design and construction process.

3. Make a prediction

Which paper plane design do you think will fly the furthest and why? Record and explain your ideas on the Conducting the Investigation Worksheet.

4. Choose a scaled measuring instrument

Decide how to best measure the distance flown by each paper plane during the test flights. Record and explain the reasons for your choice on the Conducting the Investigation Worksheet.

5. Conduct three test flights for each paper plane design

Test each paper plane three times. Use your chosen scaled measuring instrument to record the distance flown on each test flight, then record the distances in the table provided. Calculate the total distance flown by each paper plane by adding the three distances from each test flight together.

6. Make a decision

Based on the results of the investigation, decide which paper plane design to enter in the competition.

The Materials

- Blank sheets of A4 paper
- Scaled measuring instruments (small ruler, large ruler, tape measure, trundle wheel)
- Coloured pencils or markers

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Name _____ Date _____

Designing and Constructing

Design and construct three different paper planes. Give each design an interesting name. Draw a sketch or take a photograph of each design to display in the boxes below. Write a sentence to explain the features of each design.

Design 1: _____

Design 2: _____

Design 3: _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

_____ _____ _____

teachstarter

Name _____ Date _____

Conducting the Investigation

Prediction

I think design number 1 / 2 / 3 (circle one) will fly the furthest. I think this because:

_____

Measuring Distance Using a Scaled Instrument

I am going to use a small ruler / large ruler / tape measure / trundle wheel (circle one) to measure distance. This is the best instrument to use because:

_____

Collecting and Recording Data

Conduct three test flights for each of your paper plane designs. Record the distance flown on each flight.

Once you have conducted all three test flights, calculate the total distance flown by each paper plane.

	Test Flight 1	Test Flight 2	Test Flight 3	Total Distance
Design 1				
Design 2				
Design 3				

Conclusion

My prediction was correct / incorrect (circle one).

The winner paper plane design was design number 1 / 2 / 3 (circle one).

I know this because:

_____

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Name _____ Date _____

Reflection

1. Did you enjoy working on this investigation? Give reasons to explain your answer.

2. Did you face any challenges during the investigation? If so, how did you overcome them?

3. How do you feel about your winning design? Is there anything you would change about it?

4. Do you think this investigation was a 'fair test'? Why or why not?

5. Circle the statement that best suits how you feel about measuring distance after completing this investigation.

   a) I feel very confident measuring distance.

   b) My understanding of measuring distance is improving.

   c) I still need some help when measuring distance.

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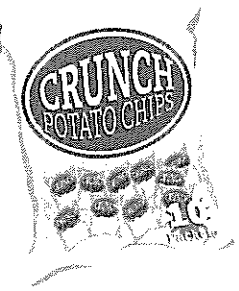
PANDORA'S PARTY PALACE

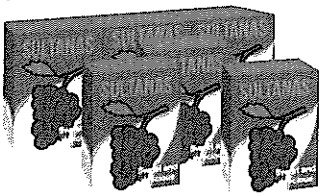
Snacks

$5.00

Potato Chips
10 packets per pack

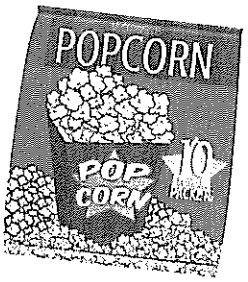


$3.00 **Sultanas**
6 boxes per pack



$5.50

Popcorn
10 packets per pack

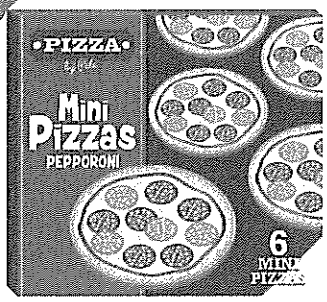


Lunch Items

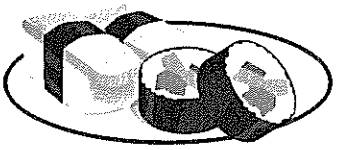
$4.00

Chicken Nuggets
20 pieces per box

$8.00 **Mini Pizzas**
6 pizzas per box

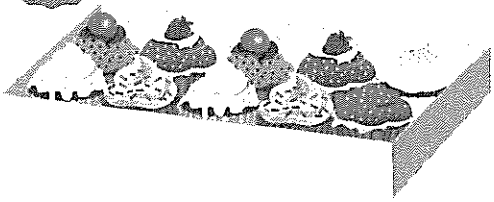


$20.00 **Sushi**
20 rolls per pack

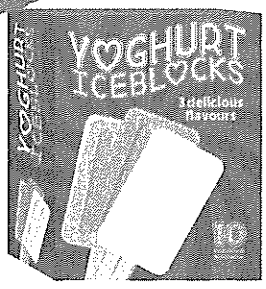


Sweet Treats

$3.50 **Chocolate Cupcakes**
10 per box



$6.00 **Yoghurt Iceblocks**
10 per box

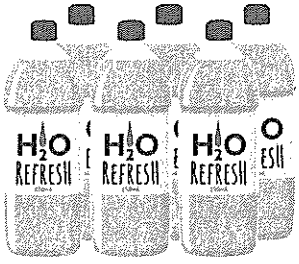


$2.50 **Lollipops**
Pack of 12

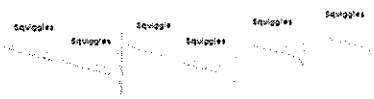
Drinks

$2.50

Water
6 x 250 mL bottles



$11.00 **Lemonade**
10 x 375 mL bottles



50% OFF

$5.00 **Juice**
6 x 250 mL boxes

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PANDORA'S PARTY PALACE

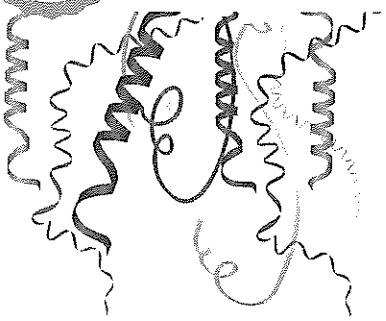
25% OFF

Decorations

$2.00 Party Hats
5 hats per pack

$2.80 Balloons
20 per pack

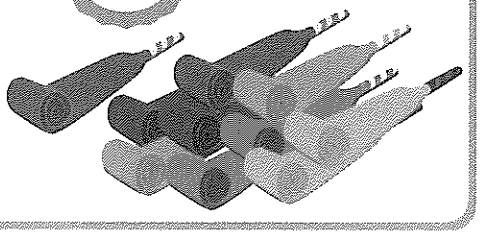
$1.00 Streamers
2 rolls per pack



$2.40 Bunting
1 x 3 m pack

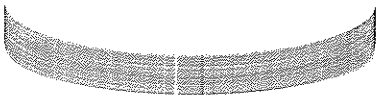
$1.60 Party Poppers
10 per pack

$3.20 Party Blowers
10 per pack



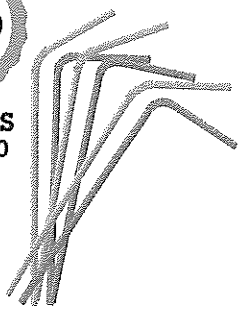
Serving Supplies

$2.50 Paper Plates
20 plates per pack



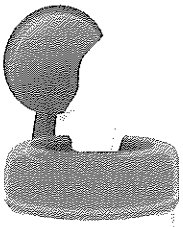
$3.00 Paper Cups
25 cups per pack

$1.00 Straws
Box of 50



$1.50 Serviettes
100 per pack

$4.50 Wet Hand Wipes
100 wipes per tub



$2.00 Plastic Tablecloth
1 per pack

Decorations and Serving Supplies

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PANDORA'S PARTY PALACE

Lucy is buying some sweet treats for a party. She needs at least 50 sweet treats, but she doesn't want more than 60.

What combinations of sweet treats could Lucy buy for the party?

List some possibilities.

Calculate the total cost of the sweet treats for Lucy's party.

teachstarter

PANDORA'S PARTY PALACE

Taylor's class was having an end-of-year party. Taylor was asked to bring the drinks. His budget for the drinks was $20.

What combinations of drinks could Taylor buy for the class party?

List some possibilities.

Check that the drinks don't cost more than $20.

teachstarter

PANDORA'S PARTY PALACE

Mario is planning a pizza party for his birthday. He needs 24 mini pizzas to feed his friends.

How many boxes of mini pizzas does Mario need to buy?

Calculate the total cost of the mini pizzas for Mario's birthday party.

teachstarter

PANDORA'S PARTY PALACE

Amy's friends came over to her place for a movie night. Amy bought 3 packs of popcorn to share with her friends.

How many snack-size popcorn packets did Amy have at her movie night?

Calculate the total cost of 3 packs of popcorn.

teachstarter

PANDORA'S PARTY PALACE

Mrs Small bought some party decorations for a surprise party for her class.

Mrs Small bought:

- 5 packs of party hats
- 2 packs of balloons
- 3 packs of party poppers.

How much did Mrs Small spend on decorations for the party?

teachstarter

PANDORA'S PARTY PALACE

Daniel and his family were going on a picnic with his cousins. Daniel's family was asked to bring the paper plates, cups and serviettes.

If 40 people were going to the picnic, how many packs of paper plates, cups and serviettes did Daniel's family have to buy?

How much did Daniel's family spend on serving supplies?

teachstarter

PANDORA'S PARTY PALACE

Sam decided to buy sushi rolls and chicken nuggets for his birthday party. He wanted each guest to have 5 pieces of sushi and 5 chicken nuggets.

If Sam invited 10 guests, how many boxes of chicken nuggets and packs of sushi did he need to buy?

Calculate the total cost for Sam's party food.

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PANDORA'S PARTY PALACE

As a special treat, Mr Wright wants to buy his class lollipops.

If there are 28 children in the class, calculate for Mr Wright:

- the total number of packs of lollipops
- the total cost of the lollipops.

teachstarter

PANDORA'S PARTY PALACE

Coach Carter needs enough bottles of water to give one to each player for the soccer gala day.

If 54 players are attending the soccer gala day, how many six packs of water should Coach Cater buy?

Calculate the total cost for the water.

teachstarter

PANDORA'S PARTY PALACE

Class 4A held a cake stall to raise money for some new play equipment. They bought 12 boxes of cupcakes from Pandora's Party Palace and sold each cupcake at the stall for $1.

Calculate:

- the total cost of the cupcakes
- the total money received once all the cupcakes sold.

teachstarter

PANDORA'S PARTY PALACE

Naomi wants to decorate her house with bunting to welcome her grandparents back from an overseas trip.

Naomi needs 12 m of bunting to decorate the house.

Calculate how many packs of bunting Naomi needs and the total cost.

teachstarter

PANDORA'S PARTY PALACE

As part of their end-of-school year celebration, Principal Jones bought yoghurt ice blocks for every child in the school.

If there are 250 students in the school, how many boxes of ice blocks did Principal Jones buy?

Calculate the total cost for the ice blocks.

teachstarter

PANDORA'S PARTY PALACE

For a science experiment, Professor Paleo needed 180 balloons and 360 paper cups.

Calculate for the experiment:

- the total packs of balloons
- the total packs of paper cups
- the total cost for the balloons and cups.

teachstarter

PANDORA'S PARTY PALACE

On the weekend, Jenny had a party for her 10th birthday. Calculate the total cost for the party if Jenny bought:

- 4 packs of balloons
- 3 packs of streamers
- 2 packs of bunting
- 3 boxes of cupcakes
- 6 boxes of mini pizzas
- 3 packs of potato chips
- 10 bottles of lemonade.

teachstarter

PANDORA'S PARTY PALACE

To help celebrate New Year's Eve, Lilly bought some decorations from Pandora's Party Palace. Her budget for decorations was $50.

What combinations of decoration could Lucy buy for New Year's Eve?

List some possibilities, and then calculate the total cost Lilly spent on decorations.

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PANDORA'S PARTY PALACE

You have been given a budget of $100 to organise your own party, using items from Pandora's Party Palace.

After deciding how many guests you will invite, make a list of the items you will buy and their total costs.

Calculate the total cost of the party to check that you have come in under budget.

teachstarter

Name _____ Date _____

My Ecological Footprint

Read the following questions. Take note of your household's behaviour over one week. For each question, shade a number from 1 to 7 which best describes your household situation. The last question asks you to tally your results.

1. How often do you eat animal-based products? This includes meat, poultry, seafood, eggs and dairy.

1	2	3	4	5	6	7

never once a day for every meal

2. Which foods that you eat have no packaging?

1	2	3	4	5	6	7

all of it vegetables and fruit it all has packaging

3. How many bedrooms and bathrooms does your house have all together?

1	2	3	4	5	6	7

If the number is greater than 7, just mark 7.

4. What material is the outside of your house made from?

1	2	3	4	5	6	7

straw bamboo wood brick concrete adobe steel

teachstarter

Name _____ **Date** _____

5. How many people live in your household?

1	2	3	4	5	6	7

If the number is greater than 7, just mark 7.

6. Do you use energy efficient appliances and lights in your home?

1	2	3	4	5	6	7

every appliance energy saving light bulbs none at all

7. What percentage of your electricity comes from 'Green' energy sources?

1	2	3	4	5	6	7

100% more than 20% 0%

8. Compared to your neighbours, how much rubbish do you generate?

1	2	3	4	5	6	7

much less about the same much more

9. How do you mostly get to and from school and other places you regularly visit?

1	2	3	4	5	6	7

always walk public transport always drive

teachstarter

Name _____ Date _____

10. How much does your family spend on petrol each week?

1	2	3	4	5	6	7

nothing between $20 and $50 more than $50

11. How often do members of your family carpool?

1	2	3	4	5	6	7

5 days a week 2 days a week never

12. How far do you travel on public transport each week?

1	2	3	4	5	6	7

more than 100 km more than 50 km less than 5 km

13. How many hours do you fly each year?

1	2	3	4	5	6	7

none around 5 more than 10

14. How often does your family plant trees, vegetables or other plants?

1	2	3	4	5	6	7

everyday weekly never

teachstarter

Name _____ Date _____

15. Use the space below to add up all the numbers you have shaded to work out your overall ecological footprint score. Then, use the data analysis table below to see what your score means.

Ecological Footprint - Data Analysis

Once you have tallied your results, find where your number sits in the table and read about your ecological footprint. Discuss your class data.

0 - 19	20 - 39	40 - 59	60 - 79	80 - 100
You have a very low ecological footprint. In fact, if everyone on Earth had a footprint in this range the earth wouldn't be in trouble.	Your ecological footprint is small enough that it will reduce the growth of ecological destruction but it will not provide a long-term solution to the problem.	You have an average ecological footprint. Remember that even though it is average, this number must be reduced.	Your ecological footprint is larger than average. You might consider how you can change your actions to reduce this number.	A number this high means you are living way beyond where you should be in order to protect the earth. Find ways to reduce your number now.

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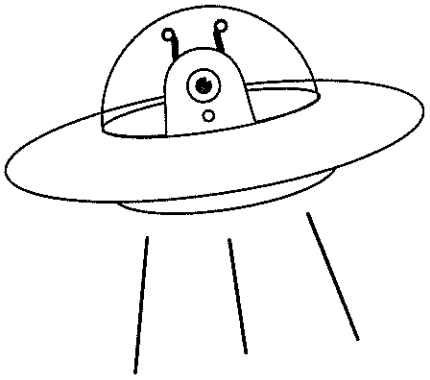
SPACECRAFT

DESIGN TASK

The Scenario:
Look up at the stars! An alien needs to get back to his home planet.
He needs you to build him a spacecraft that will take him safely back to his home.



The Process:
Follow the Engineering Design Process to help you to complete this task.

1. Ask questions - What is the problem? Are there any challenges?
2. Imagine it - Brainstorm your ideas. Pick the best one!
3. Plan it - Make a list of materials. Draw a labelled diagram.
4. Create it - Follow your plan. Create a model if possible.
5. Improve it - Did it work? Can you make it better? What could be done differently?
6. Share it - What changes need to be made? What do others think?

Material Available:

- paper plates
- paper bowls
- paper cups
- paper straws
- pipe cleaners
- cardboard tubes
- coloured paper
- coloured card
- egg cartons
- glue
- sticky tabs
- tape
- aluminium foil

teachstarter

Name _____ Date _____

Spacecraft Design Task

1. I am designing a: _____

2. I will need the following materials:

-
-
-
-
-
-
-
-
-
-
-
-

Labelled Diagram of My Spacecraft

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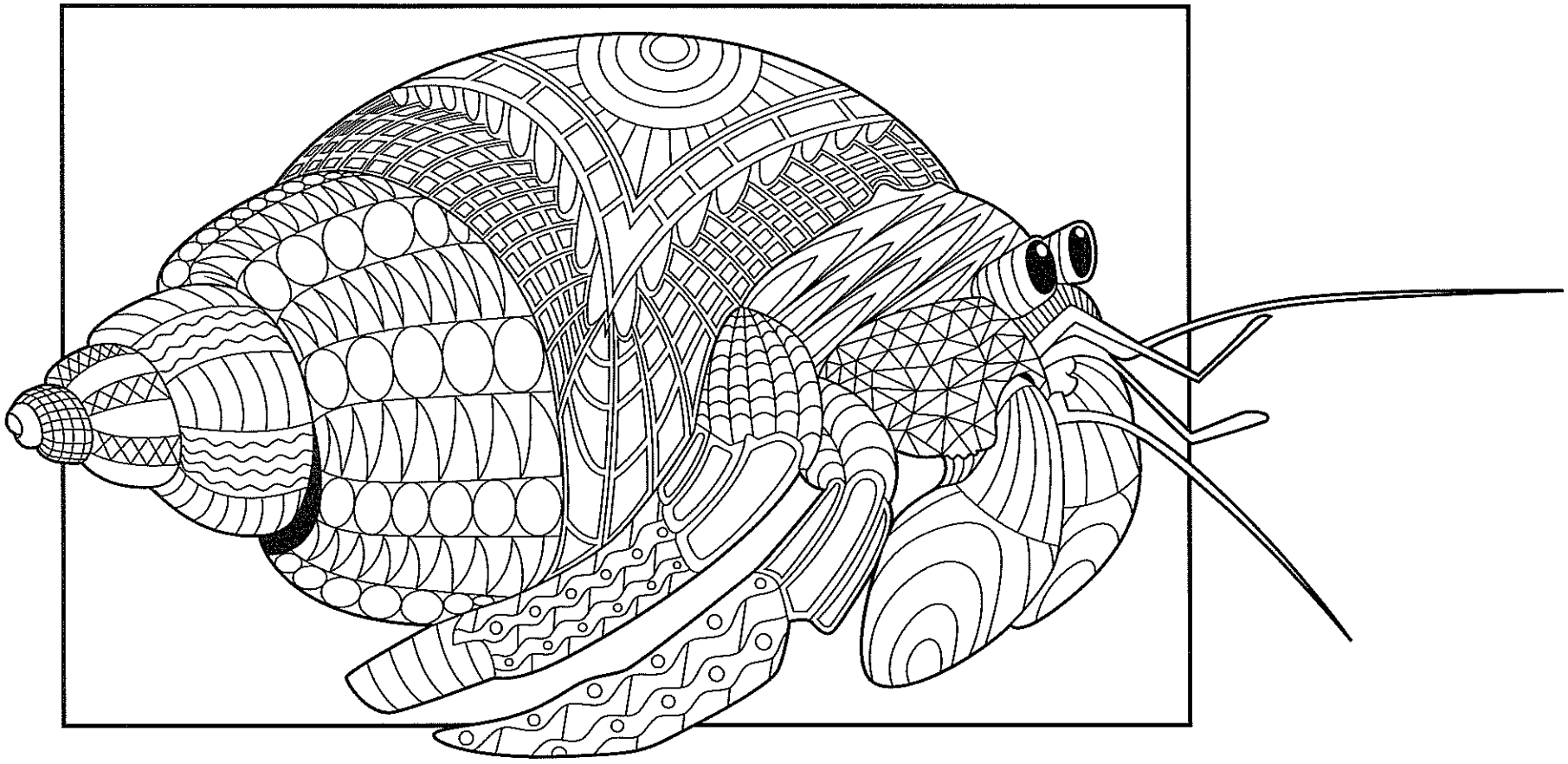

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