

Year 4 Home Learning Grid- Week beginning 22nd June 2020

Maths

Statistics - To interpret pictograms and tally charts

Computer-based activities

Consolidate:

Watch the video about How data can be displayed?:

<https://www.bbc.co.uk/bitesize/topics/z7rcwmn/articles/z8dp8mn>

Task: Compete the quiz at the end.





Core:

Task 1: Complete the table using the information from the bar chart attached to the end of this document.

Then answer the questions.

Task 2: Draw a bar chart for each table to represent the data shown. **Table 1**-House Points, **Table 2**-Tickets sold.

Extend: Challenge yourself by working out the following:

Team	Number of house points
Sycamore	
Oak	
Beech	
Ash	

 = 20 points

How many more points does the Sycamore team have than the Ash team?

How many points do Beech and Oak teams have altogether?

How many more points do Ash need to be equal to Oak?

English

Reading

- Log in to your Bug Club account and complete a new book, remember to answer the comprehension questions.
- Read a book of your choice for 15 minutes.

Super challenge: Draw a comic strip or create a graphic novel to retell a story.

Spelling

This week's spelling words are:

grammar, group, perhaps, popular, enough

Try: writing out your spelling words in Rainbow write. Choose 2 or 3 coloured pencils and alternate the colours for each letter.

For example: famous

Spelling Shed: Complete the following activity

Adverbs of manner List 23

Science

Make it Fly!

A paper aeroplane, glider or helicopter falls to the ground much more slowly and gracefully than a crumpled-up piece of paper. This is because of the forces generated by air pressing on and moving over the surface of the paper.

You will discover this by creating your own paper aeroplane and helicopter, sending them on a journey and seeing how they fly!

What you'll need:

- A stopwatch for the test

For the aeroplane:

- An A4 sheet of paper

For the glider:

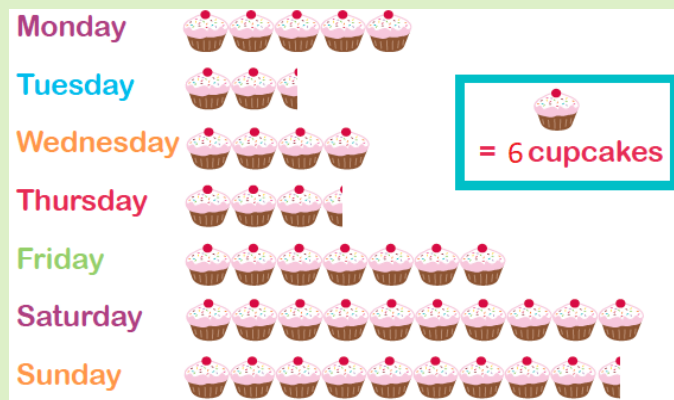
- A drinking straw
- Sticky tape
- Two strips of paper
- (one twice as long as the other)

For the helicopter:

- A helicopter template
- Safety scissors

Non-computer based activities

Consolidate Look at the pictogram below.



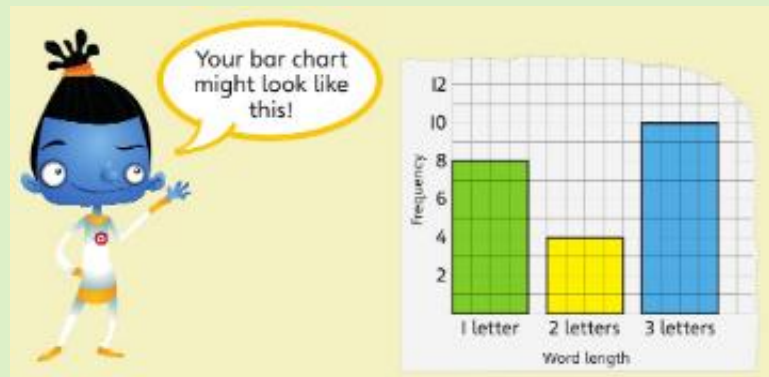
Task: Answer the following questions.

1. Which day were the most eaten?
2. Which day were the least eaten?
3. How many cupcakes were eaten on each day?

Core: Choose a page from a book to carry out a word length survey.

Collect the data and complete the frequency table attached at the end of this document in the Maths resources.

Now draw a bar chart for the information.



Extend: Answer the following questions about the information in your bar chart.

English (writing)

Switch Zoo Animals and Habitats

You are going to create your own imaginative animal and habitat, then choose one of the writing challenges you would like to do.

Activity 1: Make and play.

Click on the links below.

https://switchzoo.com/make_play.htm

<https://switchzoo.com/map.html>

Have fun playing with the website.

Create the craziest and funniest animals you can think of. Experiment with changing the habitat, legs, tail and heads.

Now aim to create a really great animal that would be useful if it existed. Is it really strong? Will it survive extreme weather? Would it be helpful to humans?

Choose an imaginative name for your new animal. Print it out if you can. If not, try drawing out your new animal.

Activity 2: Using the websites above, books from home, your own knowledge and imagination, build a profile of facts about your animal. Complete the grid attached to the bottom of this document.

Remember to include the following:

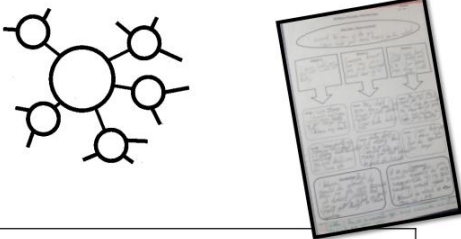
- What does it look like?
- How does it move?
- Where does it live?
- What does it eat?

Instructions

- 1 Use the templates attached at the end of this document to build your aeroplane, helicopter and glider.
- 2 Once you have created your aircraft you should practice flying them. Once you are ready for the official test, you should time how long each aircraft stays in the air using the stopwatch. You should also see how far they can travel.
- 3 If there are lots of you taking part, you should see overall if the aeroplane, helicopter or glider stay up longer.
- 4 Which design travels fastest and why do you think this is?
- 5 Why do these designs behave differently to a scrunched-up piece of paper?
- 6 How do your paper planes compare with the shapes of real planes you've seen?
- 7 Which way does the helicopter spin? Can you make it spin the other way?
- 8 What do you notice if you make the front of the plane heavier?
- 9 Make your own plane design and see if you can make it travel further than the others.

1. What is the most common length of word?
2. What is the least common word length?
3. Which lengths of words occur the same number of times?
4. Is any length of word twice as common as another?

Activity3: Look at the writing challenges for activity 4.
Choose the one you would most like to write.
Now plan your ideas in whatever form you would prefer.



Opening	
Main content	
Conclusion	

Activity 4: Choose one from the following writing challenges:

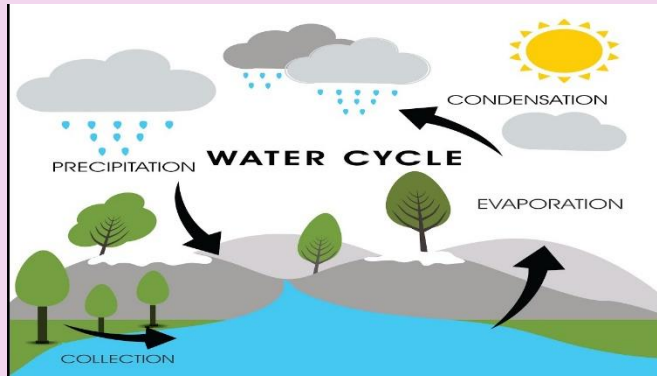
- 1) Write a **letter** to the Natural History Museum. You have found an incredible creature on your travels and would like it to be registered for everyone to know about. You will need to explain everything you know about the animal.
- 2) Create an **information leaflet** about the animal, including how it moves, what it eats, where it lives etc. You can make it funny if you want to!
- 3) You are a zookeeper and have a new animal to look after. Write **instructions** on how to look after the animal so other zookeepers can help you.

Geography

The Water Cycle

Watch the video clip below.

<https://www.bbc.co.uk/teach/class-clips-video/geography-ks1--ks2-the-water-cycle/zbcmxyc>



It follows the journey of water and how it starts in rivers, lakes and oceans, evaporates and condenses, then falls as precipitation and runs back into rivers, lakes and oceans.

Now answer the following questions.

1. What is condensation?
2. What is evaporation?
3. What is precipitation?
4. What is run-off?
5. Can you describe the water cycle?
6. How does the water cycle affect you?
7. How might climate change affect the water cycle?
8. Can you find out how salt water becomes fresh water?

Get Active – Ball skills

This week keep a log of any fitness activity that you do. This can include going for a walk, dancing, yoga, playing football or the activities below.

Day	Activity 1	Activity 2	Activity 3	Total
Sample Day	Active Outside 30 Mins	Walk with Family 15 Mins	Dance Challenge 15 minutes	60 minutes
Day 1				
Day 2				
Day 3				
Day 4				
Day 5				
Day 6				
Day 7				

Activity 1: You will need a ball.

With ball in personal space:

- Bounce the ball and catch it.
- Toss the ball up and catch it.
- Toss the ball up, clap and catch it.
- Toss and catch with the right hand only.
- Toss and catch with the left hand only.
- Toss from hand to hand.
- Dribble with hands and then feet, moving in different pathways.
- Shoot like a basketball so it arcs and lands right in front of your feet.
- Bowl (roll) the ball against the wall.
- Toss against the wall and catch on a bounce off the floor; without a bounce.
- Kick against the wall so it bounces straight back to you.

Standing, roll the ball around your body:

- In a circle, clockwise around both feet together; counterclockwise.
- Back and forth in front of the body; behind the body.
- In a circle around 1 leg and then the other.

On the floor:

- In plank position, back and forth from hand-to-hand.
- In sit-up position, between feet and then up overhead.

Art

DIY Spinner



Resources

- string
- cardboard circles
- circle template, see attached below
- markers
- scissors
- glue stick

What to do....

1. Make 2 circles onto an A4 piece of paper, or print the template.

2. Add colour to these circles, the more colourful, the more fun it is to see as it spins...

3. Cut out paper circles



4. Use these to trace on a cardboard box and cut out 1 cardboard circle.

5. Glue on the paper circles to the cardboard, (one on each side!)

6. Poke two holes right in the centre of the cardboard circle (adult support needed).

Extension Task: Choose one of the following:

- Investigate the water cycle and how it works in different parts of the world.
- Use your knowledge of the water cycle to explain why some parts of the world are wetter than others, while other parts are drier than others?
- Can you research why climate change might impact on the water cycle, and how this could affect our lives?

Activity 2: You will need a ball and a partner.

With a partner:

- Roll the ball back and forth.
- Bounce the ball to each other. Try light and strong bounces.
- Toss and catch with an underhand throw.
- Toss the ball high and jump to make a catch.
- Toss the ball low and bend to make a catch.

With a partner, each partner with a ball:

- Roll the balls at the same time so they crash into one another.
- Roll the balls at the same time so they pass each other and make it to the opposite side.
- One partner bounce passes, the other tosses across.
- Mirror: One partner moves the ball in personal space while the other mirrors the movements.
- Follow the leader: With one partner in front and the other in back, the front partner will move through the activity area performing ball "tricks" while the other follows and copies the movements.

7. Take a piece of string, about 28 inches long. Run the string through the holes and tie a knot.



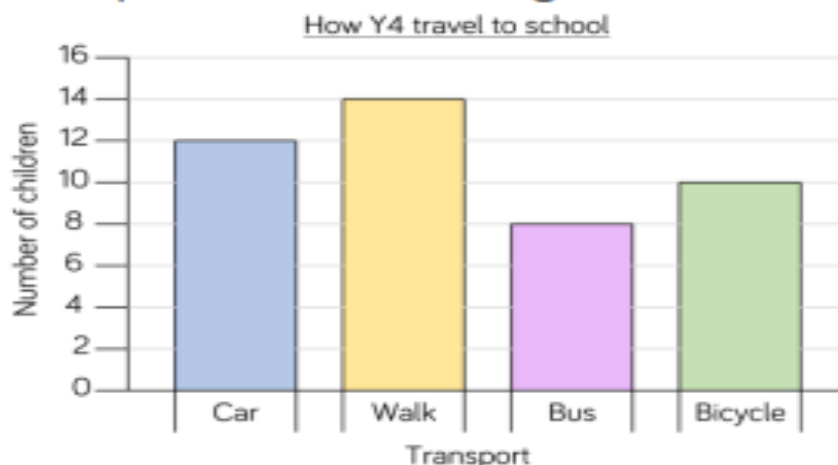
8. Now take a piece of string in each hand with the circle in the middle and go in circles to get the string twisted.



Maths computer-based activity.

CORE 1

Complete the table using the information in the bar chart.



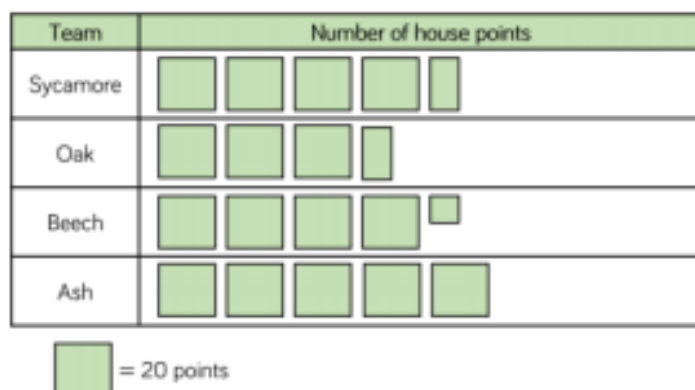
Transport	Number of children
Car	
Walk	
Bus	
Bicycle	

What is the most/least popular way to get to school?

How many children walk to school?

CORE 2

Represent the data in each table as a bar chart.



Day	Number of tickets sold
Monday	55
Tuesday	30
Wednesday	45
Thursday	75
Friday	85

Maths Core non- computer-based activity.

Frequency table

Use a page from a reading book to collect data.

- 1** Copy and complete the frequency table below.
Then draw a bar chart for the information.

Survey of word length in my book						
1-letter words	2-letter words	3-letter words	4-letter words	5-letter words	6-letter words	More than 6 letters

English Resources

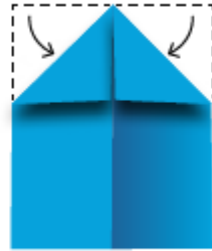
What does it look like?	Where does it live?	How does it move?
What does it eat?	Other eg. is it a friendly pet or a wild animal?	Fun facts

Science resource

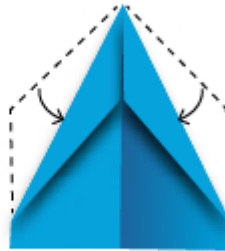
Aeroplane



1 Take the A4 sheet of paper. Fold it in half, as shown, then unfold it.



2 Fold the two top corners in to make a point.



3 Now fold the edges in again so they meet in the middle from the tip.



4 Fold the plane in half again.



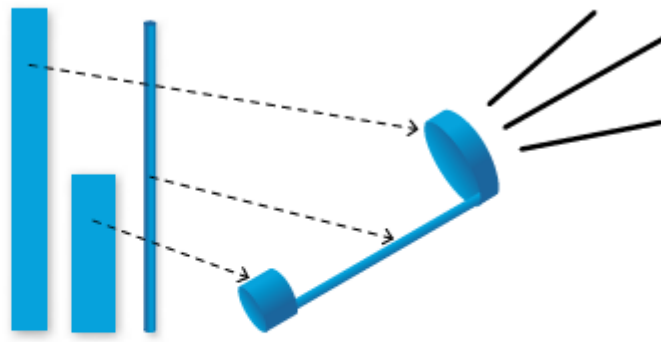
5 Now fold the diagonal edge down to meet the straight edge on each side, making the wings. Your plane is complete.

6 Test out your paper plane!



7 Helicopter

Use the template on the next page and the above diagram to help you make a paper helicopter. Drop it to see it spin.



8 Glider

Curl the strips of paper into loops and tape them to each end of a straw to make a glider.

**SCIENCE
MUSEUM**

Helicopter template

