



Class 4 Zoo Project!

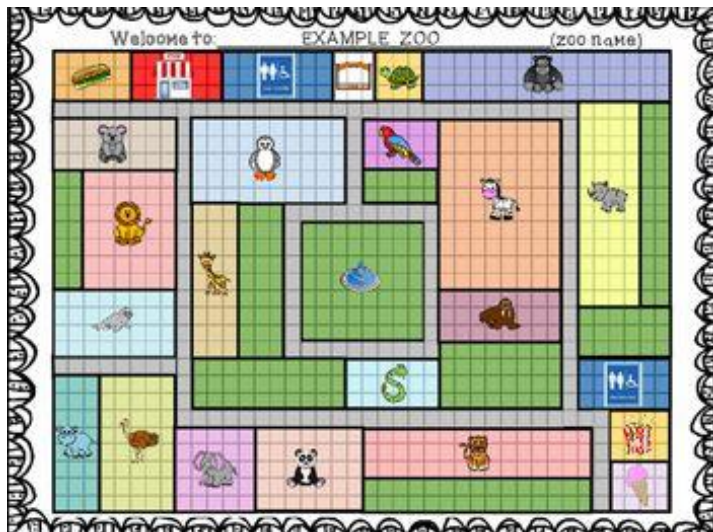
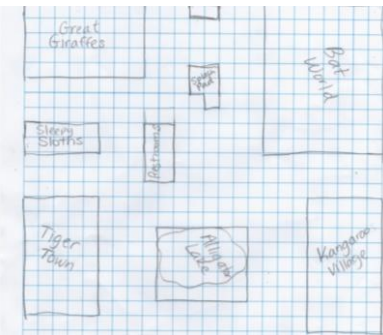
This week, I would like you to design your own Zoo or Wildlife Park.

This is going to be a weeklong project which encompasses a range of tasks and a lot of the activities will overlap across a variety of subjects. I hope you enjoy learning and creating in this way this week.

Make sure you complete some tasks from each subject section but I do not expect you to complete all the activities - just work hard on what you can and create a zoo to be proud of!

Maths

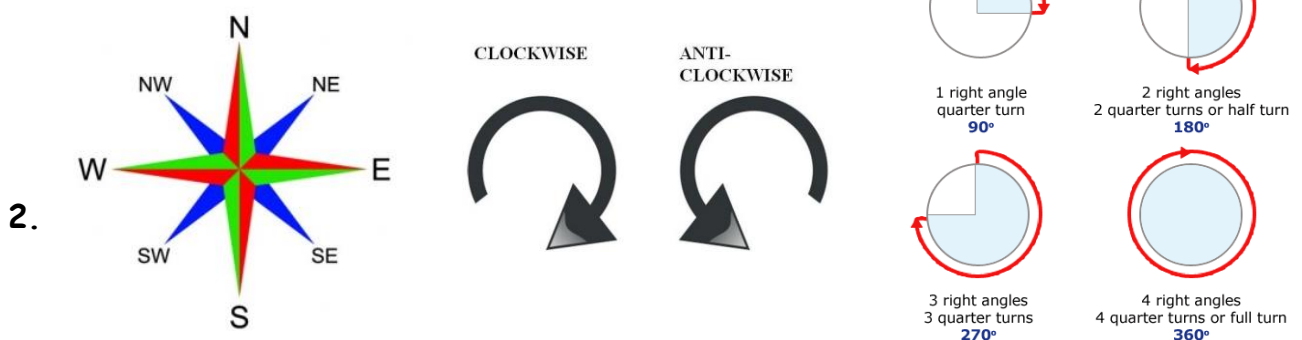
- My Zoo Enclosure Map: I would like you to create a Perimeter and Area simple map/blueprint of your site showing the number and size of the animal enclosures and the size and positions of your other facilities e.g. shop, cafe, play park. This will show how much space is needed for the zoo and how much fencing/ enclosure material is needed to safely house your animals. Here are a few things to think about:
 - You can use the **square paper** (found in Maths Zoo Resources) to draw the animal enclosures, label them all, title your work with your zoo name and then complete the **Area and Perimeter sheet** found in the resources too.
 - You may want to include a scale on your map to ensure you know what each square represents e.g. 1m or 10m etc
 - You must include at least 10 different types of animals, with at least 2 of each animal, but you can include more.
 - Which is your largest enclosure?
 - Which is your smallest enclosure?
 - Have any 2 enclosures got the same Area or Perimeter?



- **Marvellous Menu and Super Shop!:** Recap your addition and subtraction skills by creating a menu for your Cafe/Restaurant and/or create a list of items found within your zoo shop and then allocate a price for each item (don't just use whole pounds, make sure there are some pence in there too!)
 - What could I order / buy for around £10?
 - What could I order / buy for around £20?
 - Would I have any change from £100 if I bought everything on the menu?
 - What's the most expensive item in your shop?
 - What's the cheapest item in your shop?
 - Ask your family what they would like to buy/order and add up their totals and work out their change too.

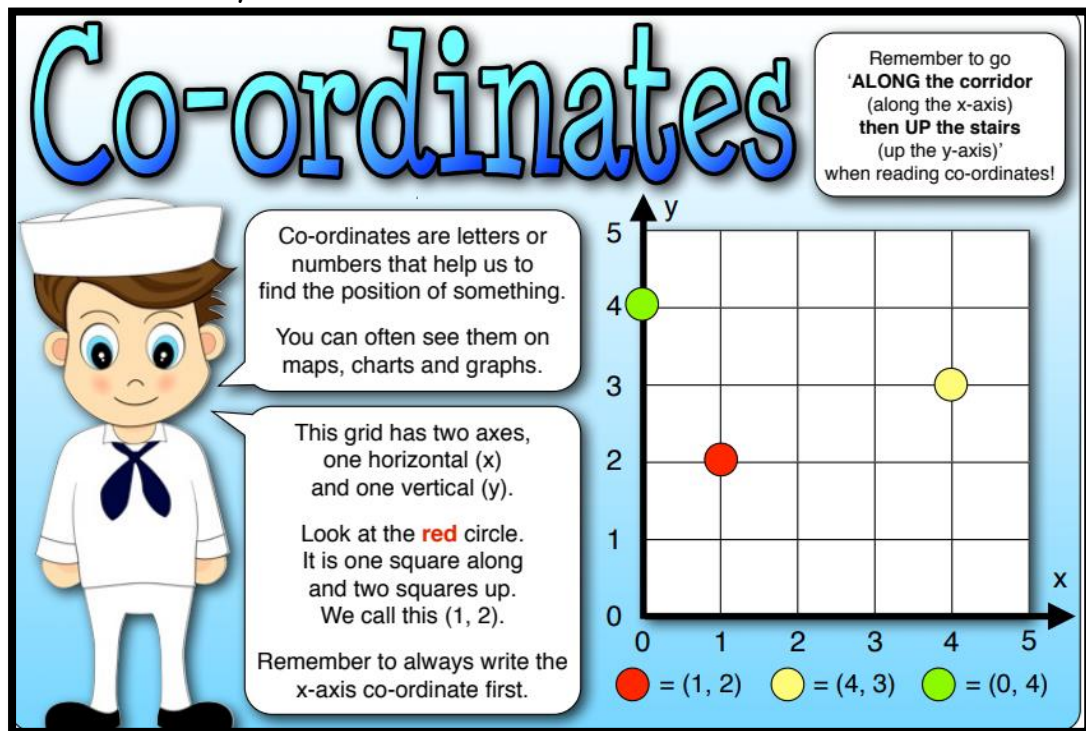


- **Survey Time:** Create a survey or questionnaire to find how often members of your family have visited zoos, and what they liked and disliked about them. Tally your results, maybe show results as a bar chart and then use the results to help you inform your planning of your zoo.
- **Zoo Timetable:** Create a Timetable of some of the shows, talks and hands on experiences you have at your zoo throughout the day. Can you work out the duration of each event? Can you use the 24hr clock?
- **Directions:** Someone at your zoo asks for directions from a given enclosure to the toilets, cafe or first aid room. Write down the directions to help them get there. Think about compass directions, turns and angles too.

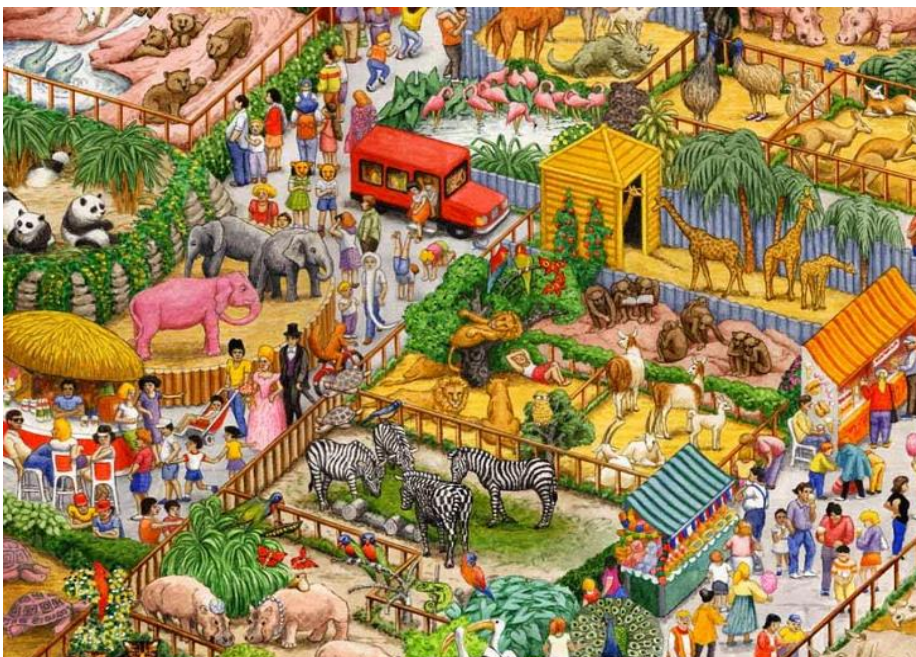


- Zoo Coordinates: Have a go at the **Zoo Coordinates** worksheets. As a challenge, can you add coordinate labels to your area and perimeter map and write down the coordinates of some of your animal enclosures?

Just in case you can't remember coordinates:



- Where is the Maths in this picture?



Can you come up with any more mathematical challenges based on your own zoo?

Reading

- **Zoo!:** Reading Task A (found in Reading Zoo Resources) involves reading *Zoo* by Anthony Browne and introduces you to some of the features of a zoo.
- **What's your opinion?:** Reading Task B (found in Reading Zoo Resources) involves reading and researching differing opinions of zoos and understanding what zoos are.
- **Reading Research:** Read about and Research animals you want to include in your zoo so that you know their specific habitat requirements. There are lots of good websites for you to explore:
 - www.chesterzoo.org/explore-the-zoo
 - www.zsl.org/kids-zsl
 - <https://www.youtube.com/user/OfficialChesterZoo/videos> - Virtual Zoo has many fantastic videos of a range of animals live from their enclosures!
- **New and Exciting Vocabulary:** Use the **Zoo Project Glossary- Vocabulary Explained** sheet (found in Reading Zoo Resources) to help you understand any new vocabulary linked to this project. If you come across any other new words which you think are useful, you can always add words to the glossary or create your own too.

Writing

- **Animal Information Signs:** For at least 3 of the enclosures you must research and write an information label/sign for the animal that lives there. You can use the **Animal Information sheets** (found in Writing Zoo Resources) to help you, or design your own.
 - Signs are one of the best ways for visitors to learn about animals.
 - You have to include certain information on each sign - the name of that species, where it comes from, and what it eats - but we also try to include a fun fact.
 - Don't include too much information - visitors only pause to read for a short time!
 - Bright colours will help to get people's attention, but they need to be able to read the words!

- *I have to go there!:* Design an advert/poster for your zoo that persuades people to come and visit. Remember to mention the different species and facilities that you have to offer.
- *Rules, Who needs rules?:* Write a set of Rules which visitors have to follow when in your Zoo for both their safety and for the safety of the animals. Have a look at the **Example of Zoo Rules** in Writing Zoo Resources, for an example text and hints how to write your own.
- *Let's Get Talking:* The presenters/keepers at your zoo need to give talks about the animals in the zoo to visitors. Write an interactive animal presentation for younger children, this talk must be around 2 minutes long and be about one of the species in your zoo. Include the following information in your talks:
 - Where are the animals found in the wild?
 - What do they eat?
 - How long do they live for?
 - What threats do they face in the wild?
 - Interesting facts about your chosen species
- *What a Day!:* Write an extract from a Diary. I have come up with 3 diary ideas but be imaginative and you can come up with your own idea too:
 - *Zoo Keeper Diary* - Write a diary about a day in the life of a zookeeper - Think about what jobs they have to do, what might they see, hear and smell? or
 - *My Day at the Zoo Diary* - Write a diary imagining you had spent a day at your zoo as a visitor - recall events from Zoo reading task and things seen in a range of videos so far. What would you want to visit if you went to the zoo? What shows and animals would you see? or
 - *My Life in the Zoo Diary* - Imagine writing a diary from the point of view of one of the animals. How do they feel about being in the zoo? What do they get up to all day and night?
- *Newspaper Reporter:* Write a Newspaper report about an animal that has escaped from the zoo
- *Why that Enclosure?:* Draw a detailed sketch of one or more of the animal enclosures labelled with well explained reasons as to why the

enclosure is designed like that and why this style of enclosure / habitat is needed for the animal it is designed for.

Science

- **Classification of Animals:** Can you make sure you have both vertebrates and invertebrates at your zoo? Use the **Animal Classification** information found in Science Zoo Resources to help you with this.

Can you explore some of these questions?

- How many different types of vertebrates will you have in your zoo?
 - Will you have a section of your zoo all about the different types of invertebrates? Will you have any arachnids? Insects?
 - What are the main features of animals in each classification group?
 - Can you make a poster explaining to visitors the classification of the animals you have in your zoo? E.g. What is an amphibian? A reptile? A mammal?
- **Vulnerable and Endangered Animals:** Choose at least 1 vulnerable or endangered animal which your zoo is going to contain and research and write an explanation piece of writing or labelled diagram all about it.
Provide information about this animal so that visitors to the zoo can learn all about it:
 - Why is it threatened with extinction?
 - How, with the help of your zoo, can it be helped? e.g. Are you going to raise money to protect its habitat? Raise awareness of its plight?
 - The following websites have some useful information:
<https://www.iucnredlist.org/> and <https://www.zsl.org/>
- **What do Animals Need?:** Different animals obviously have different needs. Here are some scientific problems that you may want to consider:
 - a) Snakes, like all reptiles, need to be warm, but they cannot make heat inside their bodies to keep themselves warm like you do. How do snakes get warm so that their bodies can digest their food?
 - b) The giraffe, along with many other hooved animals cannot dig burrows for protection from weather and enemies. Why can't the giraffe dig? What are the giraffe's enemies?

- c) Frogs, like all animals, need oxygen. Adult frogs have lungs and can breathe and get oxygen from the air. As tadpoles they do not have lungs. How do you think they get their oxygen?
- d) All baby mammals need milk. Sometimes a mother animal does not give milk to her baby (some cannot, some will not). What do you think happens to these babies in the wild and in captivity?
- e) Do zebras and monkeys move in the same way? How do they move? Would their enclosures need to be different in the park?
- f) The addax antelope lives in the desert where there are no rivers, lakes, or rain. Where might they find some water?
- g) At your zoo you would give meat to the carnivores and fruit and vegetables to the herbivores. How and where do these animals get their food in the wild?

Geography

- Decide where your zoo is going to be and find the location on a map.
- Produce a set of directions to help people find their way to the zoo.
- Why is where you have chosen to have the zoo a good location? Think about the land, nearby settlements and transport links!

Art, DT and Music

- Design your Zoo Logo, Sign and Poster.
- Design a full colour Visitor's Map of your zoo.
- Design a T-Shirt or other souvenirs that people can buy at your zoo.
- Compose a Jingle that could play on the radio to advertise your zoo.
- Look at some pictures by the artist David Shepherd. Although they are not paintings of animals in a zoo, they are all animals that could be found in a zoo. Look at the colours used and the detail. Try painting or drawing a picture of your favourite zoo animal inspired by David Shepherd's work.