

SCIENCE COMPETITION – SUMMER TERM

Email your entries to: Miss Hobbs
at Hawks@duxford.cambs.sch.uk

DESIGN A NEW SPECIES OF ANIMAL



Animal: Lesser spotted hobbzard

Discovered by: Miss Hobbs

New species are discovered by scientists every year. Some may be found locally, yet others are in faraway remote areas of the world. Although you can't travel to distant places in the hope of locating a new species right now, you can use what you know about animals to create a new species of your own!

Deadline for entries: Monday 6th July.

There will be a EYFS/KS1 winner and a KS2 winner.

Each winner will receive a special prize!

DESIGN A NEW SPECIES OF ANIMAL

Your entry must contain the following information:

1. The animal's name and habitat (where it lives - e.g. deep sea, arctic, desert). How does this habitat help the animal to survive?
2. What it looks like (written description and an image of it). How do its features/adaptations benefit the animal? How do they help it survive?
3. What it eats/its diet (carnivore, omnivore or herbivore) and what its predators are. How does it protect itself? How does it catch its prey?
4. How it moves.
5. How it is suited/adapted to its environment/habitat.

You can present your animal in many ways. You may choose to draw, collage or computer-generate an image of your new animal (or you could even make it out of clay or papier mâché).

You need to include the specified information listed above – this could be on a PowerPoint presentation, an explanation text, a fact file, or a poster (for example). You can use the attached example templates as inspiration.

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DESIGN A NEW SPECIES OF ANIMAL

Your entry could contain the following information:

- Year 4/5/6 = Where it sits in the food chain (identify producers, predators and prey).
- Year 5/6 = What its lifecycle looks like – does it undergo metamorphosis, for example? How does it reproduce?
- Year 6 = Identify the ways your species is adapted to suit its environment. Explain how this adaptation may lead to evolution.
- Other areas to consider: Is it nocturnal? Brightly coloured or camouflaged? How does it keep warm/cool? Does it live in a pack or alone?
- A record of the research you have completed to design your species. Photographs of your design/research process.

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USEFUL WEBSITES FOR RESEARCH

❖ Animals [KS1]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/z6882hv>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/z6882hv/resources/1>

❖ Animals [KS2]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/zn22pv4>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/zn22pv4/resources/1>

❖ Habitats and the environment [KS1]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/zx882hv>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/zx882hv/resources/1>

❖ Food chains and habitats [KS2]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/zbnnb9q>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/zbnnb9q/resources/1>

❖ Life cycles and reproduction [KS2]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/zgssgk7>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/zgssgk7/resources/1>

❖ Adaptation, inheritance and evolution [KS2]

- Learner guides <https://www.bbc.co.uk/bitesize/topics/zvhhvcw>
- Class video clips <https://www.bbc.co.uk/bitesize/topics/zvhhvcw/resources/1>

YOU COULD USE THIS TO CREATE AN IMAGE OF YOUR ANIMAL...

<https://switchzoo.com/>

You can present your animal in many ways. You may choose to draw, collage or computer-generate an image of your new animal (or you could even make it out of clay or papier mâché).



The screenshot shows the Switch Zoo Online website interface. At the top, the URL is switchzoo.com/zoo.htm. The main header is "Switch Zoo® Online" with a "Home" button. Below the header, there are navigation buttons for "Rhino" and "Bear". The central image displays a custom animal: a cat's head and front paws are superimposed on a Secretary Bird's body, which has a long neck and long legs. The background is a savanna landscape. Below the main image, there are three tabs: "Cat", "Secretary Bird", and "Spotted Trunkfish". Underneath these tabs is a grid of selection options for "Heads", "Legs", and "Tails". The "Heads" row shows various zebra heads. The "Legs" row shows various zebra legs. The "Tails" row shows various zebra tails. Below the grid, there is a "Zebra Habitat" label and a "Switch Zoo Habitats Map" button.

My Creature

Diet
What does it eat?

Name of Creature
Where does it live?

Predator or Prey?
Will it be hunted by other animals?
Can it protect itself?
How can it catch its prey?

Transport
How does your creature move?

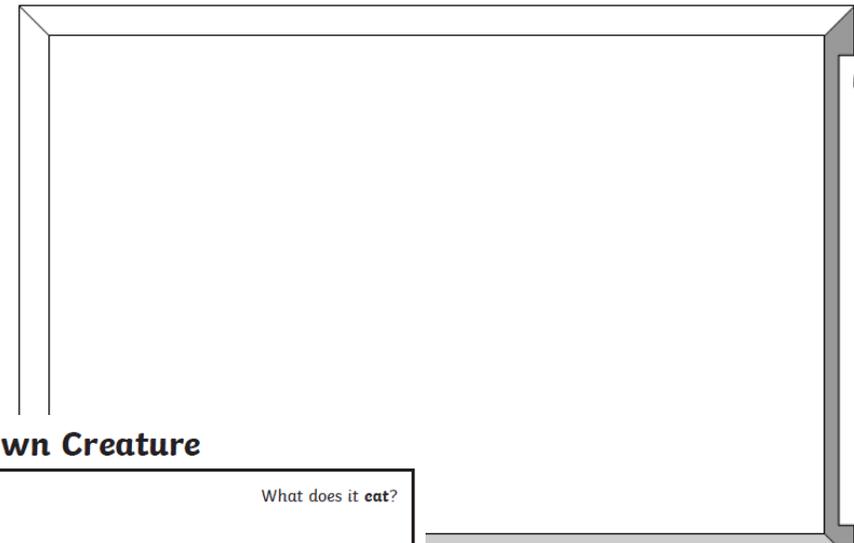
Skin or Covering
What does your creature have as its skin or covering? Why?

Transport
How does it adapt to its environment?

Adaptations - DESIGNING MY OWN SPECIES

My species' habitat: _____

My Species Design:



New habitat - would it survive and why?

Example templates

Design Your Own Creature

Where does your creature live? Is it hot or cold? Dry or wet?	What does it eat?
Is it a predator or prey? Does it have clever ways of hunting or keeping safe?	Does it have skin, feathers or scales? Why?
	How does your creature move? Wings? Legs?
Draw your creature here.	