



IMPACT



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As programmers, our intent is for our children to leave Beckstone Primary school with...

An understanding and ability to apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation

Year 5 - Data and Information - Flat-file databases
Lesson 3 - Using the database
Learner activity sheet

National Centre for Computing Education
Raspberry Pi

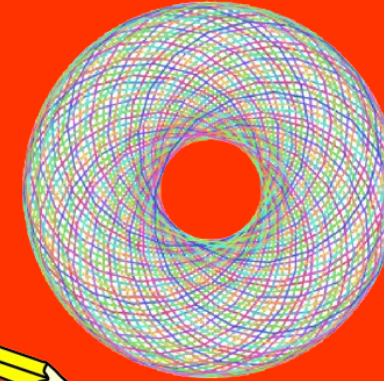
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Using the database

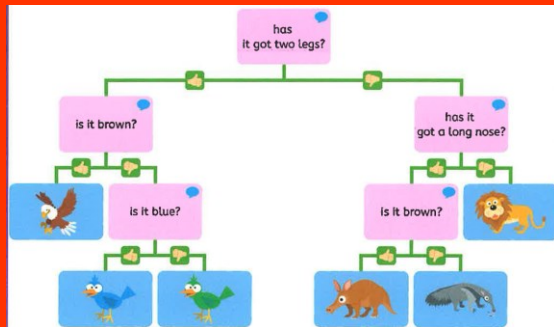
Using the 'search' and 'sort by' tools in the 'Countries' database, answer the following questions:

- Which Spanish-speaking country has the largest population?
Mexico ✓
- Which Chinese-speaking country has the smallest population?
Hong Kong ✓
- Which country using the Euro currency has the smallest area?
Belgium ✓
- Which country using the Euro currency has the smallest population?
Austria ✓
- Out of all the countries with a population of over 100,000,000, which has the largest area?
Russia ✓

The understanding of fundamental Computing principles are clearly evidenced in ongoing computing work, assessments and progress over time



A Year 4 pupil's use of Scratch to program a design.



Year 1 – Branching Databases

Q8. Which two fields have been used to create this graph?

| Country | Area (approx. million) |
|---------------|------------------------|
| Russia | 17.5 |
| Canada | 10.0 |
| United States | 9.8 |
| China | 9.5 |
| Brazil | 8.5 |
| India | 3.5 |
| Peru | 1.5 |
| South Africa | 1.2 |
| Egypt | 1.0 |
| Turkey | 0.8 |
| France | 0.6 |

A. Population and country name
B. Country name and area ✓
C. Area and currency
D. Currency and population

Q4. Here is the table view of a database. We want to answer the question: 'How long is the longest dinosaur?' Which field would you use to answer it?

| Name | Type of Dinosaur | Geologic Time Period | Date of existence (mya) | Where they were found | Length (m) | Diet | Type Species |
|------------------|------------------|----------------------|-------------------------|-----------------------|------------|-------------|--------------|
| Aardonyx | Sauropod | Early Jurassic | 199-189 | South Africa | 8 | Herbivorous | celestae |
| Abelisaurus | Large Theropod | Late Cretaceous | 74-70 | Argentina | 9 | Carnivorous | comahuensis |
| Achelousaurus | Ceratopsian | Late Cretaceous | 83-70 | USA | 6 | Herbivorous | homeri |
| Achillobator | Large Theropod | Late Cretaceous | 99-84 | Mongolia | 5 | Carnivorous | giganteus |
| Acrocanthosaurus | Large Theropod | Early Cretaceous | 115-105 | Canada, USA | 12 | Carnivorous | atokensis |

- A. Name
- B. Diet
- C. Length ✓
- D. 12 ✓



The ability to evaluate and apply information technology, including new or unfamiliar technologies

All pupils are exposed to a range of technologies, PCs, iPads, Beebots, laptops, phones, digital sound machines etc. Pupils able to choose appropriate resources to support their learning and are keen to explore new technology



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Red Panda Endangerment

The Red Panda is an endangered species with only about 111 left in the wild by March 2020, but scientists are trying to repopulate them. Now the population has increased to about 250 in the wild.

The Red Panda has a white face and ears also red fur everywhere else. By March 2022 we hope the population will increase to 1,000, if we're correct there will be 1,000,000 by 2122 so the red pandas will be repopulated.

Further on the appearance of the red panda, it has a red bushy tail like a fox but without the white tip. They were given the name red panda 50 years back before the black and white giant panda, they're vegetarian carnivores.

Did you know?
The red panda has two extinct relatives.
The red panda has two relatives one endangered the giant panda and the raccoon.



A passion for and commitment to the subject and a real sense of curiosity to find out about how technology can enhance and improve the world and the life chances of the people who live there.

Y6 persuasive posters to protect endangered species

Y4 graphical designs for holiday camps of the future



The ability to express, in digital media, well-balanced opinions, rooted in very good knowledge and understanding about current and contemporary issues in society and the environment and being able to distinguish fact from opinion and 'fake news' from 'real news'



The world of the Romans

Roman baths.
In the 2nd century B.C. the first Roman bath was made. At the baths there were changing rooms and toilets.

You may not know this but the Romans had baths together! And it's actually true...

Claudius
Emperors are people who run an empire. One of the emperors was called Claudius. Claudius was not the best emperor. In fact he was the last emperor because people thought it was unfair that they had to obey everything that the emperor wanted them to do. Claudius suffered from cerebral palsy.

Romulus and Remus.
Romulus and Remus were the founders of Rome. They were raised by a wolf. They were abandoned by their parents and were a gift on river Tiber. When they found Rome they split the land but Romulus killed Remus cause he wanted Rome for himself. Remus was the first emperor of Rome.

Roman roads.
The Romans built roads all over because they thought they would be quicker to get around. The Romans built new roads all across the landscape—over 14,000 (14,000 miles) in fact.

Boudicca.
Boudicca was born in 30 AD. Boudicca got married to Prasutagus but a few years later Prasutagus made a deal with the Romans. Boudicca got angry because when Prasutagus died the Romans broke the deal so she gathered lots of tribes and fought the Romans. Boudicca lost the war and the Romans were going to make her a prisoner but Boudicca killed herself so she did not want to. She died in 61 AD.

Year 3 pupils using their DTP skills to summarise their Roman studies to consolidate their learning and to display key facts

Excellent learning behaviours that ensure they are responsible, competent, confident and creative users of information and communication technology.



Pupils clearly show an enthusiasm and confidence in using communication technology to express themselves. This is also demonstrated in 'green screen' performances for parents.



An excellent knowledge and understanding of how to keep themselves safe online, how to deal with cyber bullying and to understand their actions 'leave a trail' and they need to operate online as they would in normal day to day activities.

Online Safety is a major focus not just of computing lessons but in assemblies, newsletters and in class. The Cumbrian mental health survey showed Beckstone pupils are far more aware of online safety than their comparators



Safer Internet Day 7th February

- Don't talk to people you don't know.
- Don't give at your personal information.
- Talk to a trusted adult if you see any thing online you don't like.
- Report and block any one who is bullying you.



Be safe online

If someone say's something bad press the report button



Never trust strangers even if they seem trustworthy.