

## Computing Lesson Information

Wednesday 24<sup>th</sup> February 2021

LC: Sort objects using yes/no questions

LC: Understand and create a branching database using 2 Question

1) Let's think about the words data and database.

**Data** are facts about something; data can be words or numbers or pictures. For example, the class register contains data about the names, addresses and attendance of the pupils in the class. Some registers will also contain photos of the students.

**A database** is a collection of data organised in such a way that it can be searched, and information found easily. Database usually refers to data stored on computers. The school attendance database has all the data from the registers. The school staff can easily do a search of the database using the computer to find out who has 100% attendance and who has missed lots of school. People use databases every time they search the Internet to find specific information; for example, searching for a holiday destination that is the right temperature and has the things they like, such as a swimming pool and beach nearby.

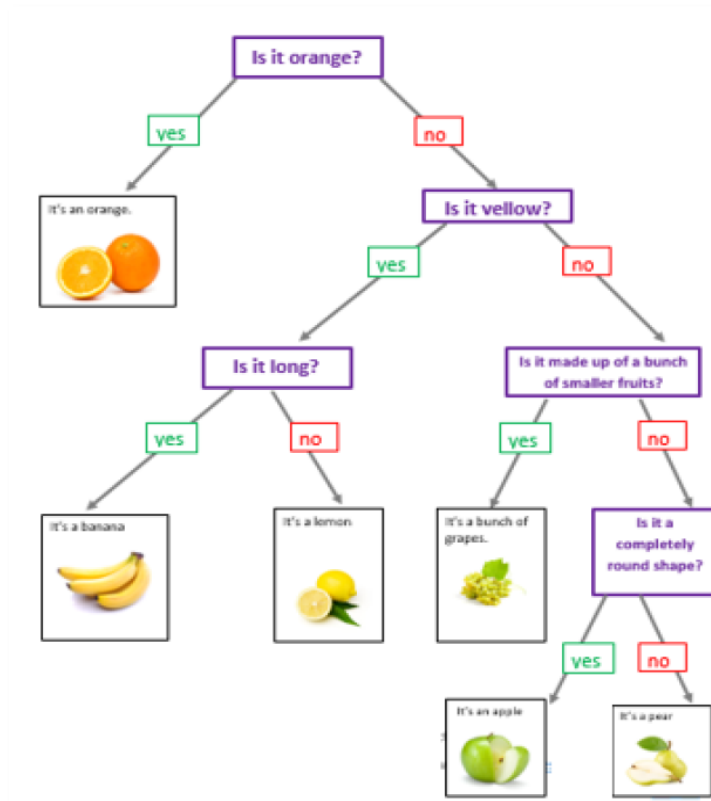
**A branching database** is used to classify groups of objects. It is used to help identify the objects by answering questions with either 'yes' or 'no'. Branching databases can also be called binary trees. They are called branching because each time a question is asked there can be two answers, making two branches. When you put all the questions and answers together in the database, it forms the shape of a tree (upside down).

2) Have you ever played the game 'Guess Who?' Just like in the game of Guess Who, when you ask questions that split the people into two equal groups you will get to the answer quicker. That is what we do with a branching database.

Ask an adult/ helper to help you play a sorting game using the **fruit images** (attached and uploaded). You can print these or just draw them.

- Put the fruit images face up on the desk and choose a fruit (but do not tell your adult/ helper)
- See if they guess which fruit you have chosen by asking you one question at a time about the fruit you have chosen. You are only allowed to answer '**yes**' or '**no**'. Turn over the cards as you eliminate the fruits.

3) Have a look at the image of the branching database below.



Use the uploaded and attached **blank question strips**, **arrows** and **yes/no cards** to create a paper branching database.

Remember, you need to start with a question that will split the fruit into two groups. Continue doing this until the branching database is complete.

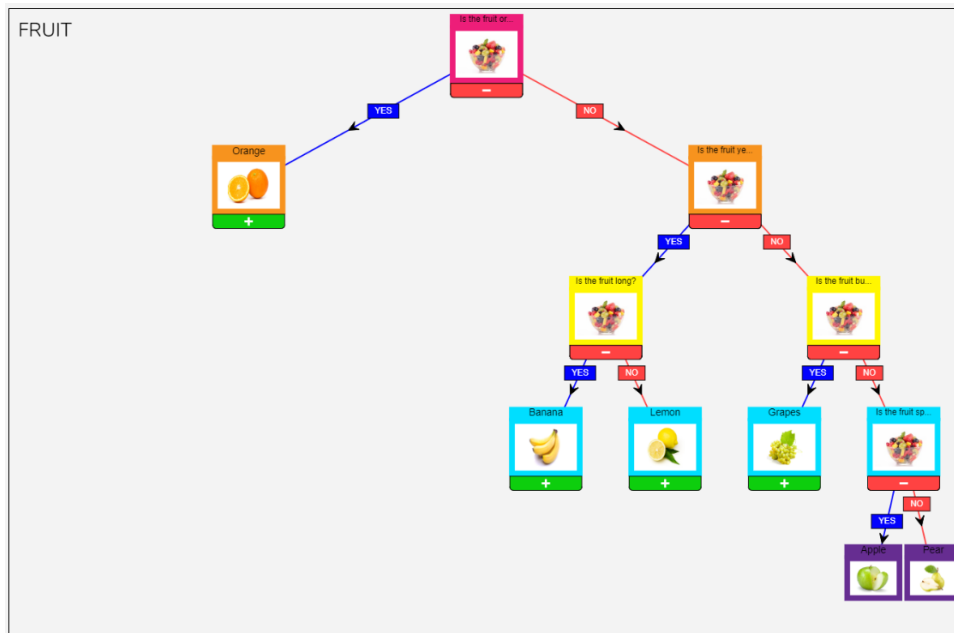
Think of some questions to help separate the fruits.

Questions may include:

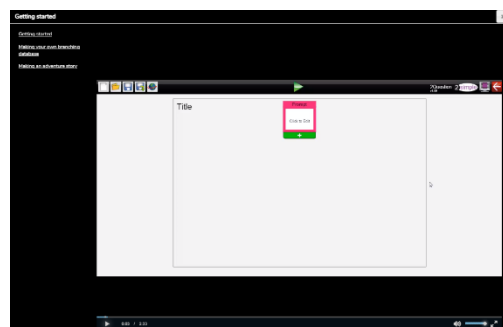
- Is your fruit orange? (Eliminates the orange straightaway!)
- Is your fruit long? (That takes care of the banana!)
- Do you usually eat the skin on the fruit? (The lemon is out!)
- Is your fruit usually bought in a bunch? (Possibly the grapes!)

Of you would like further practise, use the pictures of the **vegetables**, **musical instruments** or **animals** (also attached and uploaded).

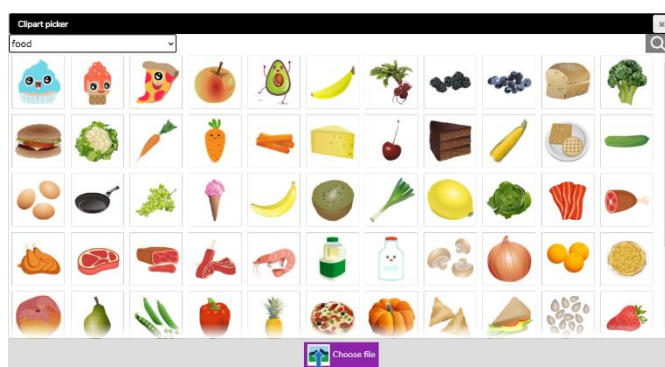
4) Have a look at the example 'Fruit' branching database I have set for you as a **2Do**.



Have a go at clicking on the add buttons to add questions and complete the fruit branching database. Use the green 'play' button to play the help video if needed. You can add fruit images by clicking on



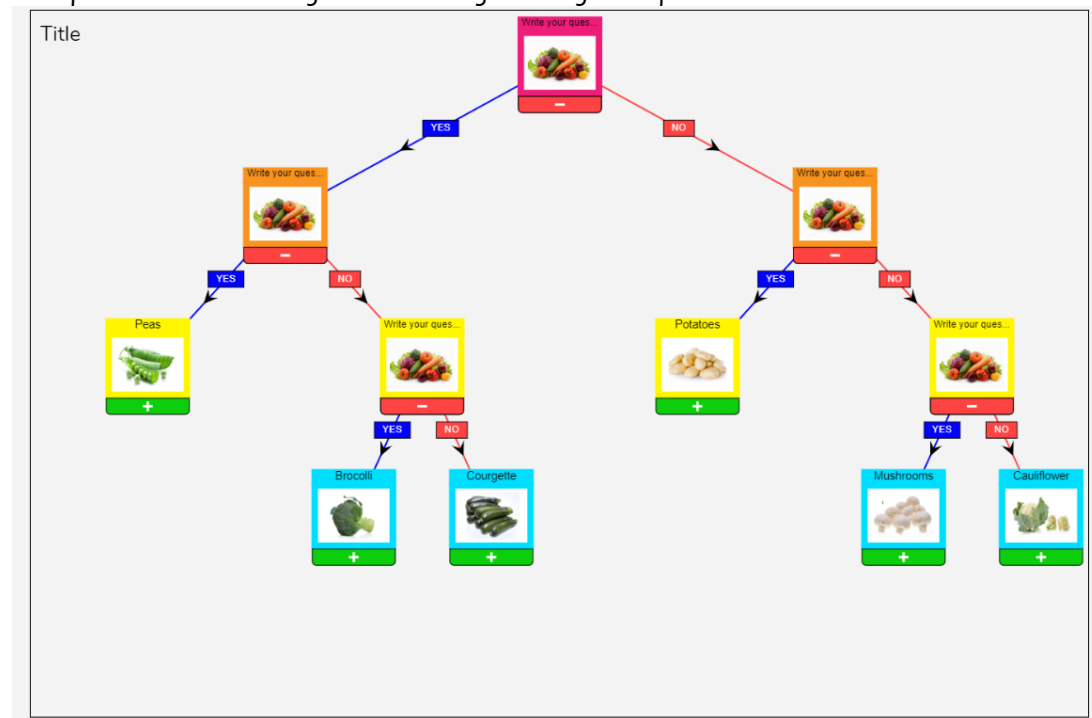
You can add fruit images by clicking on clipart icon and select 'food' from the drop down menu.



5) Complete the partly completed 'Vegetables' branching database I have set for you as a

**2Do.** 

Complete the branching database by writing the questions.



6)

Do you have any outstanding Purple Mash tasks to complete? Have you completed the following **2Dos**?

- Iron Age leaflet 
- Passwords Poster
- You've Won Email Activity
- Cyber Security Guards Activity Sheet
- 2 Paint A Picture – Pointillism Style
- A Famous Artist Fact file

Please check in your 2Dos, and complete the tasks as you can. Make sure that you click on '**Hand In**'. These will then be printed and put into your computing folders.