River Bank Primary Knowledge Organiser

Year 5

Spring Term 1

particular record.

We are databases

What we will learn

Using a Computer database

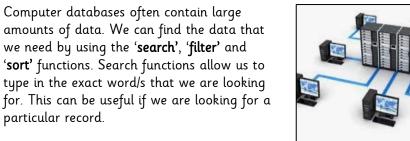




Data is raw numbers and figures. Information is what we can understand from analysing data.

Flat-File databases

Databases organise data so that it can be easily added to, amended, stored and accessed Computer databases can allow large amounts of data to be sorted, filtered and edited more easily.



E-safety:

We teach our children to be SMART online



Types of databases

Database: A database is a collection of organised data that is easily stored and used. Databases often structure data in logical ways (e.g. in columns, rows and tables) so that it can be accessed by those who need it easily. Databases are made up of individuals records, which contain information in different fields (categories).

Paper Databases: Paper databases require the creator to manually write in individual records, and to sort the records in an appropriate order. Paper records can still be useful in small databases, particularly where information is not changing and does not need to be amended frequently. However, most large databases are now stored on computers.

Computer Databases: Many computer programs allow us to create databases, e.g. *j2data* or Microsoft Excel. Computer databases have become more popular than paper databases, as data can be easily and

quickly added or removed, sorted,

filtered, edited, or viewed at any time.

If we are looking for records that share certain information we can filter out data by different fields. For example, we filer in the 'age' field for all students aged 23. The database will then present only the students aged 23.

Computer databases often contain large

we need by using the 'search', 'filter' and

We can also sort records by the data in particular fields. e.g. we may sort by the students' ages, from youngest to oldest. The youngest student will then appear at the top.

	College Enrollment 2016 - 2017			
Student ID a	Last Name B	Initial a	Age	
ST348-245	White	R.	21	
ST348-246	Wilson	P.	19	
ST348-247	Thompson	A.	18	
ST348-248	Holt	R.	23	
ST348-249	Armstrong	1.	37	
ST348-250	Graham	S.	20	
ST348-251	McFadden	H.	26	
ST348-252	Jones	5.	22	
ST348-253	Russell	W.	20	
ST348-254	Smith	L	19	

Presenting data

Data can be shown visually, by using graphs and charts. This allows users to quickly and easily find answers to the questions that they need. It helps the user to easily see trends and to sequence information.

Charts and graphs can be created by selecting the charts icon and selecting which fields to

display in the xaxis and y-axis.



Using databases

Remember that databases are used in order to quickly and easily find information. Databases are only able to do this if the data is **organised** logically into clear records and fields. Databases are used in most institutions worldwide e.g medical records, school student

information & flight logs.

Payer	Amount	Tax	Subtotal	Costs No Deductible
(CON59) Linda Gamilton	\$696.00	\$96.00	\$600.00	\$70.00
(CONS8) Charles Hurper	\$603.20	\$83.20	\$520.00	\$90.00
(CONS7) Brian Ferry	\$522.00	\$72.00	\$450.00	\$65.00
(CONS3) Sarah Bernard	\$324.80	\$44.80	\$280.00	\$50.00
(CONS2) Mary Johnson	\$174.00	\$24.00	\$150.00	\$20.00