

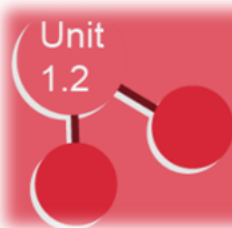


# St James' Church of England Primary School

## Computing Overview Sheet



### Year 1 – 1.2 Grouping & 1.3 Pictograms



#### Unit 1.2 - Grouping and Sorting



#### Unit 1.3 - Pictograms

#### Prior and Future Learning Links:

Year 2 – **Questioning** - Use of questioning to separate and group information. **Spreadsheets** - Use of 2Calculate to collect data and produce a graph

Year 3 – **Databases** - Creating a branching database using 2Question. **Graphing** - Displaying and interrogating data in a graph form using 2Graph

Year 4 – **Databases** - Effective searching and sorting of information using a database. **Spreadsheets** - Presenting data through line graphs

#### Learning Objectives:

- To sort items using a range of criteria. (Grouping and Sorting)
- To sort items on the computer using the 'Grouping' activities in Purple Mash. (Grouping and Sorting)
- To understand that data can be represented in picture format. (Pictograms)
- To contribute to a class pictogram. (Pictograms)
- To use a pictogram to record the results of an experiment. (Pictograms)

#### Overview:

Lesson 1: Sorting Away from the Computer (Grouping and Sorting)  
Lesson 2: Sorting on the Computer (Grouping and Sorting)  
Lesson 3: Data in Pictures (Pictograms)  
Lesson 4: Class Pictogram (Pictograms)  
Lesson 5: Recording Results (Pictograms)

#### Cross Curricular Links

#### Resources

• iPada • Purple Mash Login Details

#### Impact/Assessment

**Most Children will:** Children can physically sort, collate, edit, present, search through, re-order and re-structure items using a range of given criteria (Unit 1.2 Lesson 1). Using Purple Mash, children can sort items into three clearly defined groups using given criteria (Unit 1.2 Lesson 2). Children can collate and organise class data into a physical pictogram (Unit 1.3 Lesson 1) and a virtual pictogram (Unit 1.3 Lesson 2) Children can then interrogate this data to answer given questions. Children can create, store, retrieve and share their own pictograms (Unit 1.3 Lesson 3)

**Less Able Children will:** With support, children can physically sort items using a limited number of given criteria (Unit 1.2 Lesson 1). Using Purple Mash, children can sort items into two clearly defined groups using given criteria (Unit 1.2 Lesson 2). With support, children can organise a limited set of data into a physical pictogram (Unit 1.3 Lesson 1) and a virtual pictogram (Unit 1.3 Lesson 2). With support, children use this data to answer given questions. Working as a group, children can create, store, retrieve and share their pictograms (Unit 1.3 Lesson 3)

**More Able Children will:** Children demonstrate their depth of understanding by creating their own criteria for items against which they can physically sort, collate, edit, present, search through, re-order and re-structure and explain their reasoning (Unit 1.2 Lesson 1). Using Purple Mash, children can also sort items into Venn diagrams using given criteria (Unit 1.2 Lesson 2). Children can collate and organise class data into a physical pictogram (Unit 1.3 Lesson 1) and a virtual pictogram (Unit 1.3 Lesson 2) Children can then interrogate this data to present statements about the data e.g. 'The second most popular form of transport was...'. Independently, children can create, store, retrieve and share their own pictograms (Unit 1.3 Lesson 3)