

Newquay Primary Academy –Summer Term 1 Sequence– Computing



RECEPTION

Prior knowledge...

YEAR 1 Grouping data

Prior knowledge...

Children should be familiar with:

- How to switch their device on
- Usernames
- Passwords

YEAR 2 Pictograms

Prior knowledge...

This unit progresses students' knowledge and understanding of grouping data where learners labelled objects and grouped them based on different properties.

INTENT

This unit introduces learners to data and information. Labelling, grouping, and searching are important aspects of data and information. Searching is a common operation in many applications, and requires an understanding that to search data, it must have labels. This unit of work focuses on assigning data (images) with different labels in order to demonstrate how computers are able to group and present data.

Learners will begin to understand what the term data means and how data can be collected in the form of a tally chart. They will learn the term 'attribute' and use this to help them organise data. They will then progress onto presenting data in the form of pictograms and finally block diagrams. Learners will use the data presented to answer questions.

VOCABULARY / STICKY KNOWLEDGE

Label, group, data

Data, tally chart, pictogram, attribute, block diagram

SEQUENCE OF LESSONS

1. Internet safety - Privacy and Security - I can explain how passwords are used to protect information, accounts and devices.
2. Label and match – To label objects
3. Group and count – To identify that objects can be counted
4. Describe an object - To describe objects in different ways
5. Making different groups - To count objects with the same properties
6. Comparing groups – To compare groups of objects
7. Answering questions - To answer questions about groups of objects

1. Internet safety -Privacy and Security - I can explain how passwords are used to protect information, accounts and devices.
2. Counting and comparing – To recognise that we can count and compare objects using tally charts
3. Entering data - To recognise that objects can be represented as pictures
4. Creating pictograms – To create pictograms
5. What is an attribute? - To select objects by attribute and make comparisons
6. Comparing people - To recognise that people can be described by attributes
7. Presenting information - To explain that we can present information using a computer

OUTCOME / COMPOSITE

Children will be introduced to the concept of labelling and grouping objects based on their properties. Children will begin to improve their ability to use dragging and dropping skills on a device.

Children will collect their own data using a tally chart and present their findings using a pictogram and block diagram using a computer.