



Lesson Activity Sheet

School:

Date:

Class size:

Year group:



Application used: 'The Elements', iPad Photos and Numbers

Resources: 15 ipad minis, interactive whiteboard

Topic: Handling Information - The Elements 2

Overview:

This week students are all looking at producing graphs from their data that they collected last week. Some of the more advanced children will have already started this and so can experiment with different chart types and perhaps incorporate more than one column of data about each element. The second half of the lesson is a 'quiz' style activity where the children compete to find more detailed information about the elements.

Week 7

Learning Objective/s:

1. To be able to present collected data in charts and graphs
2. To be able to search a database for detailed information.

Learning Outcome:

Each child should have a numbers spreadsheet detailing elements and their melting points. Some of the more able students will have several different sorts of graphs/charts and will have utilised more than one column of data about each element.

LESSON OUTLINE

Starter input/activity (10 mins)

PLAY THE SONG and remind the students where they got to! Pick out a couple of children that you think did really well and show how far they got on the whiteboard. i.e. look!..they did these albums..cool. And look, they then went on to do this spreadsheet.

Activity (Charts and graphs) 20-25 mins

By this point in the scheme, the children should quite used to producing charts and graphs and so emphasis should be placed on some of the more advanced tweaking that is possible (year 6 only).

Teacher to go through quickly how to produce a table, enter data from the 'Albums' and produce a chart. Children are to then set about producing their own charts and graphs.

Activity (Elements - Quiz)

This fun second half of the lesson gives the students more practice at searching the elements database but also serves as a detailed way of **checking the levels of learning and understanding** gained over the last two lessons.

Students can come together into quiz teams of 4 if desired or work in their existing pairs. The answers to the 'quiz' questions can be written on paper and collected in to be assessed. Team members names to be written on the sheets.

***Note... You will need to produce 15 to 20 detailed questions for the children to research. Each batch of 5 should be more complex. If you run out of time you can simply use less questions**

Plenary/Reinforcement

This element of the lesson has been covered by the 'quiz' activity.

Differentiation and Extension

More able students will have stretched themselves when it comes to the variety and amount of personalisation that went into their charts and graphs. Also they will have made use of a number of additional columns of data.

Less able children will have produced more simple charts, perhaps using just one column of information.

National Curriculum:

1. Handling Information
2. Recording and entering data
3. Manipulating and displaying data

The image shows a screenshot of an application titled 'THE ELEMENTS' by Theodore Gray. The interface features a periodic table where the element Xenon (Xe) is highlighted in a glowing purple color. The atomic number 54 is displayed next to the symbol 'Xe'. The word 'Xenon' is written below the symbol. In the top right corner, the text 'THE ELEMENTS' is displayed in a large, stylized font, with 'THEODORE GRAY' written above it. The periodic table includes small images of various elements, and the noble gases He, Ne, Ar, Kr, Xe, and Rn are visible on the right side. There are buttons for 'Song' and 'Index' in the top left and bottom left corners, respectively.