# 30 Chemistry

# Getting to know the elements of your smartphone

(Portugal)

### Background

The project title 'Periodic Table of the Smartphone'.

Today all students have a smartphone but what substances and mixtures are they made up of? Let students explore the elements of their phone while they understand more about the importance of the periodic table and the information it gives us. A researched based activity.

#### You will need:

- ✓ Teachers' can use a copy of information is image 1 a copy of 'Elements of a Smartphone'. This information sheet can be found at www. compoundchem.com
- ✓ Students use a template as in image 2 to carry guide them with their research.

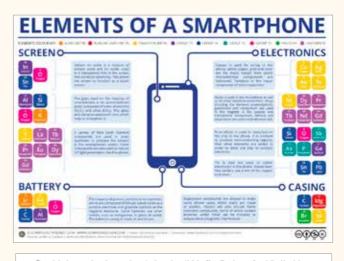
## So what happened?

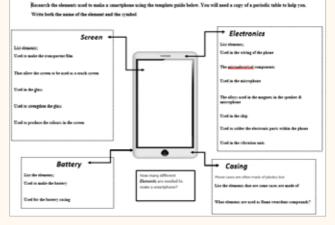
By carrying out the research activity students should become more aware of the elements on the periodic table and what they can be used for. The activity will develop student discussions on the range of elements that are needed to make a smartphone and how valuable they are.

#### What next?

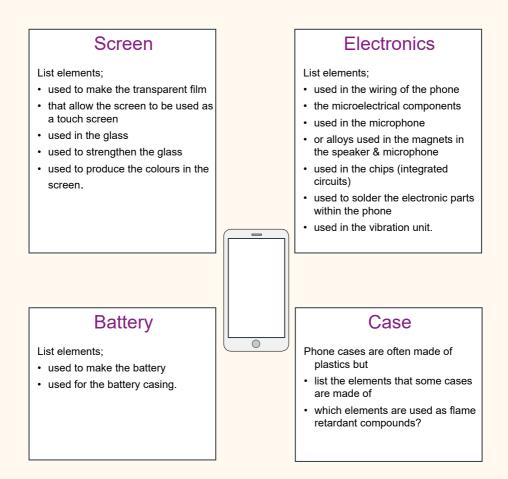
Students can extend on this by;

- · Research the sustainability of the elements used.
- The varying quantities of the elements used and the effects of using & depleting these resources.
- The strategies phone companies are or can put in place to make their phones more sustainable.





Research the elements used to make a smartphone using the template guide below. You will need a copy of a periodic table to help you.



How many different Elements are needed to make a smartphone?