

Key Stage 3 Homework Assignment Information



Student Name:

Target level

Year Group:

8

Subject	Date Set	Deadline	Teacher
Science	7 th June	21 st July	All

Catastrophe Unit Homework

Level 5-7 Predicting Eruptions

You have been sent to the Philippines to investigate Mayon, a cone-shaped volcano.

The local government are worried because scientists have noticed some changes in the volcano but they are not sure if this means an eruption will happen and, if it does, how dangerous it would be.

This is the information that the scientists have gathered:

- Low level earthquakes detected at the base of the volcano.**
- The ground surrounding the volcano has risen slightly.**
- The glow from inside the volcano has got brighter.**

The percentage of carbon dioxide and sulphur dioxide in the gases coming from the volcano has increased.

You need to write a report to advise the local government:

- Explain why it is important for them to be able to judge if the volcano will erupt or not.**
- Suggest what is happening to the volcano in order to bring about these changes.**

Say whether you think these signs mean an eruption will happen or not.



APP L5

Uses more than one step to explain processes or phenomena, suggest solutions to problems and answer

APP L6

Takes account of more than one factor when explaining processes or phenomena.

APP L7

Employs a systematic approach in deciding the relative importance of a number of factors when developing an argument and explaining processes or phenomena.

•As above but also explains what the changes in the volcano show about what is happening under it



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Catastrophe Unit Homework**Level 3-6: The Mystery of Ellora**

Ravi gives guided tours around the Buddhist and Hindu temples at Ellora, in India. These temples were built over a thousand years ago but were not built up of blocks of stone. They were carved downwards out of a very thick layer of basalt. Ravi is an expert on the history of the caves but some tourists want to know more about the rocks from which the caves were carved. Ravi usually shows tourists a piece of rock from which the caves are carved.

It is made up of tiny interlocking crystals. Write down some notes for Ravi to help him tell the tourists more about the rock.

Make sure these notes explain:

- What type of rock this is.
- What it was made from.
- What the crystal structure of the rock tells you about how it formed.

Why carving these caves by hand is so impressive.



APP L3 Identifies differences, similarities or changes related to simple scientific ideas, processes or phenomena.

Responds to ideas given to them to answer questions or suggest solutions to problems.

Represents things in the real world using simple physical models.

APP L4 Uses scientific ideas when describing simple processes or phenomena.

Uses simple models to describe scientific ideas.

APP L5 Uses abstract ideas or models or more than one step when describing processes or phenomena

What you have to do to succeed:

Complete as many of the tasks as you can - aim for the highest level possible, do not limit yourself. Use what you have learnt in class to get started and use additional resources such as the internet, books and SAM learning if you need more information. Write everything in your own words and consider using diagrams to help explain your ideas. Always lay your work out neatly and check your spelling. Your homework will become part of your unit booklet.

Resources and Websites:

- Encyclopaedias.

Department guidance for parents:

You can help the student doing the homework by:

- Encouraging them to think through their ideas before they start.
 - Helping them to identify how Science applies to their everyday lives.
 - Check through the tasks to ensure they have done as asked and encourage them to attempt as many of the tasks as they can.
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General guidance for parents

You can help by:

- Ensuring at least 2 hours are spent researching, developing, drafting, reviewing and producing homework to the best standard possible.
- Making sure work is handed in by the deadline.
- Noting at the end of the homework any problems experienced by the student.
- Checking there is no plagiarism, ie. downloading/copying from the internet or books.

Students should read the material, make bullet points, write rough notes in their own words, draft and then develop these notes in their own words into their final piece. Plagiarism leads to coursework being disqualified at GCSE/A level. Plagiarised work will not be accepted by teachers.

Please do not:

- do any part of the work for your child
- give extensive guidance; the student must be able to understand the task for themselves and teachers understand what students can/cannot do.