

Year 8 Fortnightly Task: Week Beginning Monday 1st June

Your task over the next two weeks is your choice. Below there are two options. Which one you complete is totally up to you

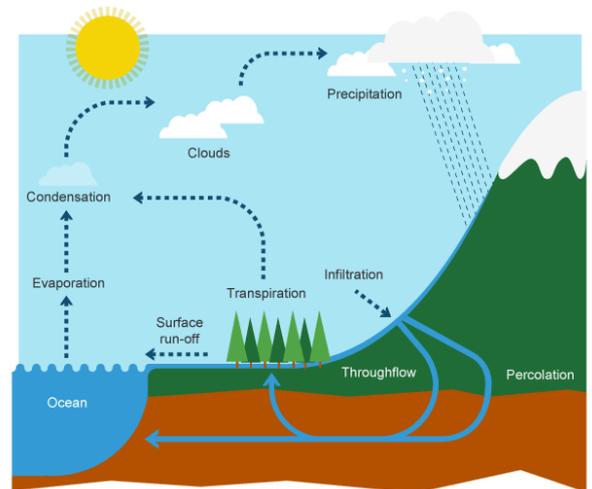
Your deadline is **Friday 12th June**

Don't forget to complete the two knowledge checks you will get too!

Task 1:

Below is a picture of what we call 'The Hydrological Cycle'. It is also known as the Water Cycle. Using this image and a little bit of research I would like you to the answer the following question:

'Why is the hydrological cycle so important? Surely our water just comes out of the tap and that is that?'



Task 2

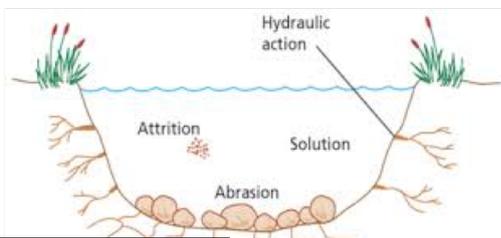
There are four ways that river material (e.g. stones) are moved down a river. There are also four ways the river material gets smaller over the course of this movement. I would love to see some drawing to represent this movement. Perhaps you want to show me what you know using a comic strip or an annotated image. However you present your work I would like the following question answered:

'How does a large boulder move from the top of a mountain water spring all the way down to a river mouth and why is it so small when it gets there?'

River Erosion.

Attrition – when stones carried by the river knock against each other, making the stones smaller and more rounded.

Hydraulic Action – the force of the water hitting the riverbed and banks.



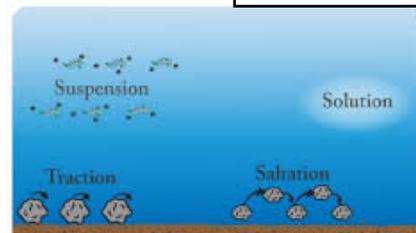
Abrasion – when the load carried by the river repeatedly hits the bed and banks dislodging particles into the flow of the river.

Solution – when the river flows over limestone or chalk, the rock is slowly dissolved.

River Transportation.

Suspension – fine, light material is held up and carried within the river's flow.

Solution – Minerals are dissolved in the water. This is a chemical change affecting rocks such as chalk and limestone.



Traction – Large boulders and rocks are rolled along the river bed. Load carried in this way is called bedload.

Saltation – small pebbles and stones are bounced along the river bed.