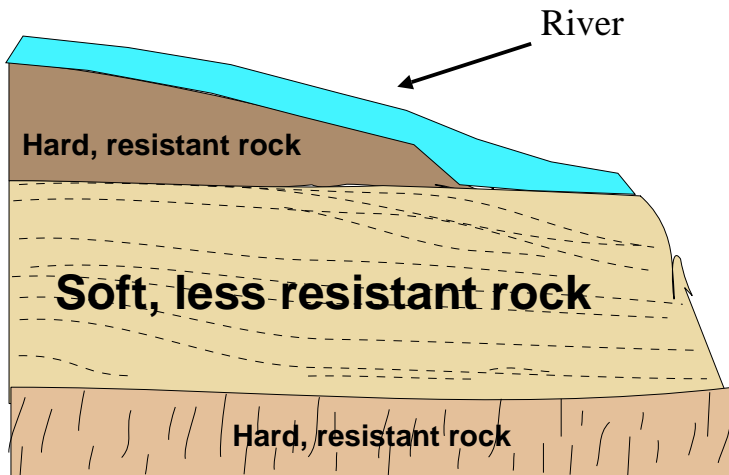


# The Formation and Retreat of Waterfalls

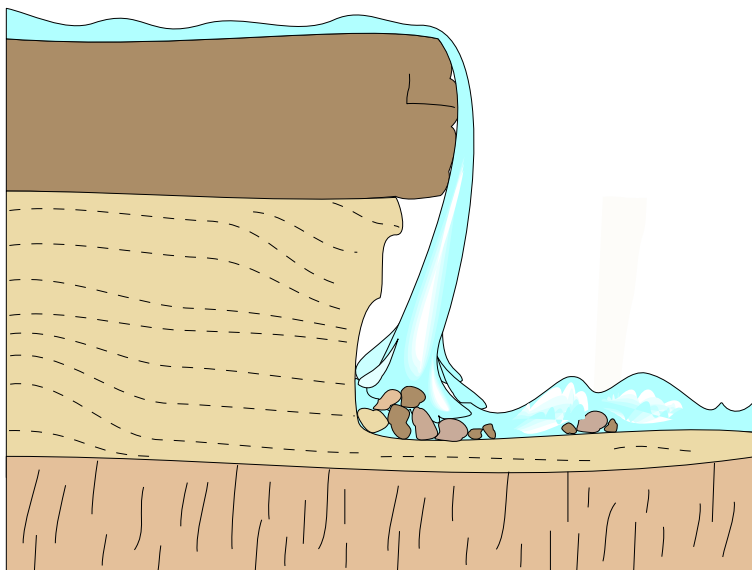


## Formation

Copy the diagram on the left.

Mark clearly with an X the point at which you would expect the waterfall to start forming.

Write a paragraph to explain how the waterfall is formed.



Copy the diagram on the left to show what the waterfall looks like once it has been formed.

Label the "Plunge Pool" in the correct place.

Label the bands of hard and soft rock correctly.

## How a waterfall retreats

Draw a series of three smaller labelled diagrams to explain how a waterfall gradually retreats upstream.

Start with one like the second diagram you have drawn, but show the force of the water undercutting the softer rock and wearing some of it away. Add the label **UNDERCUTTING**. This should leave part of the top layer of rock overhanging. Add the label **OVERHANG**.

Draw the second diagram showing the overhang collapsing. Add a label to explain why.

Draw the third diagram showing the whole process starting over again. Add a label to explain what will gradually happen.