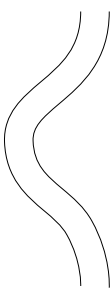
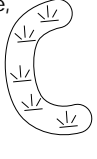
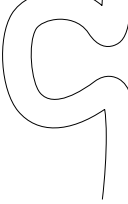
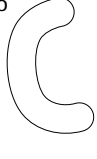
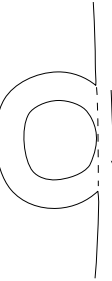
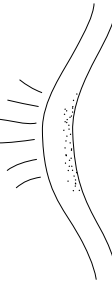

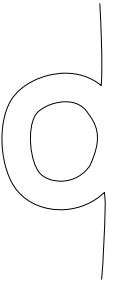


Name _____

Class _____

These eight boxes show how meanders and oxbow lakes are formed.
But they are in the wrong order!

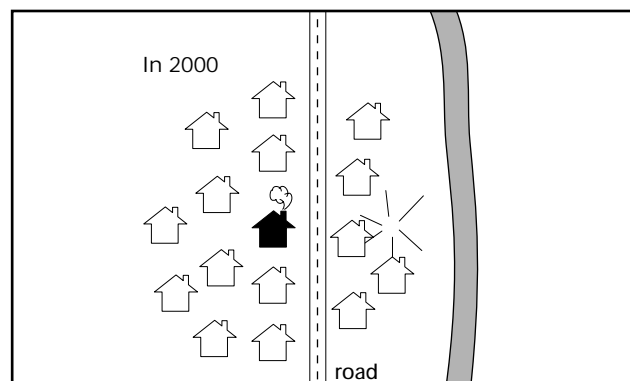
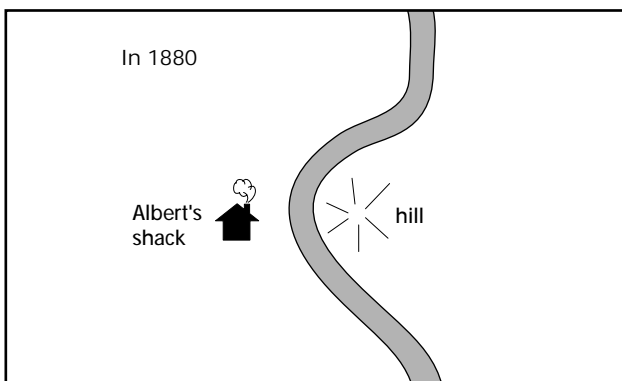
 <p>This erosion and deposition turns the bend into a meander.</p>	 <p>After a long time, the oxbow lake silts up and dries out, and plants grow in it.</p>	 <p>The meander bends more and more over the years until it becomes a really tight loop.</p>	 <p>The river keeps to its new channel, so the loop is left as an oxbow lake.</p>
 <p>When the water level is really high, the river has enough energy to go straight across the loop, rather than round it.</p>	 <p>So the outside of the bend is eroded away. Material is deposited on the inside of the bend.</p>	 <p>A meander starts as a slight bend. Water flows faster on the outside of the bend than on the inside.</p>	 <p>This is called a meander cut-off.</p>

- 1 Cut out the boxes and put them in the right order.
- 2 Write the numbers 1 to 8 in the circles, to show the right order.
- 3 Stick the boxes in the right order in your exercise book, and colour them in.



Now meet Albert.

In 1800 Albert lived in a shack on a bend in the Mississippi River. He invented a time machine and travelled to the year 2000. His shack is still there – and a little town has grown up around it. But the river seems to have moved! Albert is rather confused.



In your exercise book

- 4 Write Albert a letter (with diagrams) explaining what has happened to the river. You need to tell him about meanders, water speed, erosion, deposition and oxbow lakes.