



# Forming of the High Weald: Activity Sheet

## Sediment layers



Chalk	
Clay	
Lower Green Sand (Sandstone ridges today)	
Wealden Sands	
Palaeozoic Platform - Carbonate Rock	



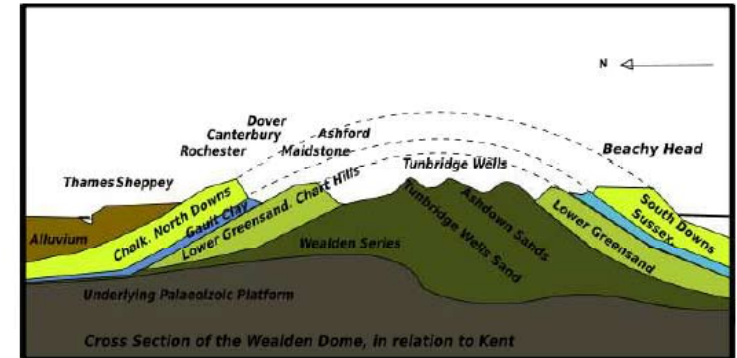
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## Sediment layers



### Sediment game :

1. Go out and gather a handful or two of as many different types of dirt, mud, sand, and pebbles as you can find, putting them in the bottle as you go to create your own 'sedimentary layers.' Try collecting some clay and pebbles from a river if possible, and/or some sand from the beach, and/or some soil from a garden, and so on. The idea is to get as many different types of sediment as possible.
2. When the bottle is about 1/3 full, fill it the rest of the way with water, and close it tightly with the cap.
3. Give the bottle a good shaking until everything inside is completely mixed up.
4. Set the bottle somewhere where there's good light and it won't be disturbed.
5. Look at the water every minute or so. Notice what's happening. How clear is the water? What's sinking? Is anything floating? What's different compared to the last time you looked?
6. After about 15 minutes, everything should be pretty well settled. (Wait a little longer if you need to.) Look closely at the sediments that have settled at the bottom of the bottle. Are they still all jumbled up like they were when they were suspended in the water? Or have they separated themselves into layers? How many distinct layers have you got? What fell to the bottom? What settled next, and after that? What's at the top? How are the lower layers different from the higher ones?
7. On your piece of paper, draw a picture of the layers in the bottle, and next to each layer, write what it's made out of -- pebbles? sand? mud?
8. Use the ruler to measure the thickness of the layers in the bottle, and write the results next to the drawing of each layer.



(Figure 1: The Wealden Anticline or Dome)