

**8. Why was ‘Archaeopteryx’ an important fossil discovery? (It is on display in the Jurassic case)**

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**7. What type of animals walked across the West Midlands during the Late Carboniferous?**

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**What traces did it leave behind?**

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**11. Explain how each rock group is formed.**

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**12. Find the sandstone with ripples on the Rock Wall. Describe how the ripples were formed:**

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**What environment(s) would you see ripples forming in today?**

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1. **What type of animal is the Dudley bug?** (Hint: it is found in the Silurian time period)

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**Examine our Rock Wall**

**9. What disastrous event happened at the end of the Cretaceous? What caused it?**

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Name:

**10. Rocks can be classified into 3 groups based on how they form. Name the 3 rock groups:**

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2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. **During the Carboniferous the West Midlands was covered by tropical forests and swamps. What fossil evidence is there for this?**

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**What rock type eventually formed from these forests?**

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1. **Describe the environment of the West Midlands during the Silurian period.**

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**What is the fossil evidence for this environment? (Look in the black Victorian cabinets behind you)**

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1. **Charles Lapworth named the Ordovician period. What important group of fossils did he study?**

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1. **Where was the West Midlands located during the Precambrian period?**

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1. **How old is the Earth?**

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**Find the start of our Geological Timeline in our Evolution of Life Gallery**

**Geology Trail**

**– KS4**



**13. Watch the Earth’s tectonic plates clip and earthquakes and volcanoes clip on the Active Earth globe. Describe what controls the distribution of volcanoes and earthquakes.**

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**14. Watch the 2011 Japan tsunami clip on the Active Earth Globe. Suggest a management strategy that countries could have used to decrease the hazard risk.**

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**15. What machine is used to measure earthquakes?**

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**23. Name five other properties you would use to help you identify a mineral.**

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**22. Investigate the different physical properties that can be used to identify minerals. Try the mineral tests for density.**

**What is the densest mineral?**

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**21. Name 3 minerals which glow under ultraviolet light.**

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**20. Read the information about mining in the Midlands. Lead mines have been worked in Shropshire since the Romans. What is the primary ore (mineral) of lead? What shape does the mineral grow in?**

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**19. What is the difference between rocks and minerals?**

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**Go upstairs to our Mineral Wealth Gallery**

**18. Look at the microfossils under the microscope. What can studying microfossils tell us?**

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**17. Describe the type of volcanic eruption that would have ejected volcanic bombs and ash.**

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**16. Name four different volcanic hazards.**

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**Find our Active Earth Gallery**