



# LAPWORTH MUSEUM TRAIL

Key Stage 4

Name: \_\_\_\_\_

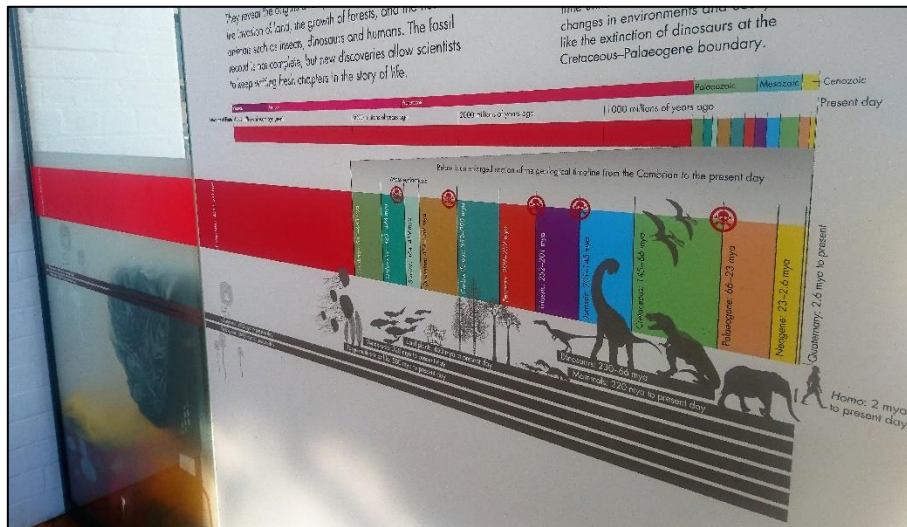


UNIVERSITY OF  
BIRMINGHAM



Supported using public funding by  
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# Geological Time and the Evolution of Life Gallery



1. How old is the Earth? \_\_\_\_\_
2. Where was the West Midlands located in the **Precambrian**?  
\_\_\_\_\_
3. Charles Lapworth named the **Ordovician** time period. What important group of fossils did he study?  
\_\_\_\_\_
4. Describe the environment of the West Midlands during the **Silurian** time period.  
\_\_\_\_\_

What is the fossil evidence for this environment (*Look in the black Victorian cabinets behind you*)?  
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5. What type of animal is the **Dudley Bug**?

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6. 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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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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8. Why was '**archaeopteryx**' an important fossil discovery? (*It is on display in the 'Jurassic' case*)

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

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10. After looking through the Evolution of Life Gallery, briefly describe the movement of the West Midlands throughout Earth's History: \_\_\_\_\_

### The Rock Wall

11. Rocks can be classified into three groups based on how they form. Name the three **rock groups** and **explain** how each group are 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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## Active Earth Gallery

13. Watch the Earth's **tectonic plates** clip and the **earthquakes and volcanoes** clip on the Active Earth Globe.

Describe what controls the distribution of volcanoes and earthquakes:



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

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

16. Name four different volcanic hazards:



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

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

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### Mineral Wealth Gallery

19. What is the difference between a **rock** and a **mineral**?

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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 this mineral grow in?

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21. Name three minerals which glow under Ultraviolet light:

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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? \_\_\_\_\_

Name FIVE other properties you would use to help you identify a mineral:

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