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Deep Time Video James Hutton and the Rock Cycle

| recti | ons: Answer the following questions using complete sentences only where necessary. |
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| 1) | During what century did people first start to understand how mountains and other landforms on our planet had formed and changed over time? |
| 2) | What country was James Hutton from? (HINT → Same as Iain Stewart, himself) |
| 3) | What did Hutton predict should happen if the drainage ditches and streams continued to carry away the soil? |
| 4) | What evidence did Hutton see in the landscape around him that showed how new land could be made to replace the land that was eroding away? |
| 5) | What immense geologic formation in the US is comprised of many layers of sedimentary rock? |
| 6) | What important industrial invention did James Watt help to improve? |
| 7) | What did Hutton think the center of the Earth would be like? |
| 8) | What did Hutton discover from the glass factory in Edinburgh? |
| 9) | Why was it "controversial" for Hutton to claim that granite had once been molten? |
| 10) | What was Hutton looking for at the meeting place of the two rivers in Blair Atholl? |
| 11) | Describe how horizontal sedimentary rock layers become vertical over millions of years: |
| 12) | What is meant by the phrase, "Deep Time"? |