# **Time Capsule**

Year 3 Science Diagnostic Task

Rocks

Pupil Recording Sheets

**Commissioned by The PiXL Club Ltd.**

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Name:

**Which is the hardest rock?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **For each rock, test if it can be scratched with the following:**  Tick 🗹 for ‘Yes’ Cross 🗷 for ‘No’ | | | | | |
| Rock Name | Predicted Ranking 1-6 (1 is the softest). | Finger Nail | Split Pin | Metal Nail | Actual Ranking 1-6 (1 is the softest). |
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| Which of the rocks did you predict correctly? | | | | | |
| From your results, which of the rocks would you use for your time capsule monument? Give a reason. | | | | | |

**Which rock is the most permeable (allows the most water through it)?**

Name:

|  |  |  |  |
| --- | --- | --- | --- |
| Rock Name | Predicted Ranking 1-6  (1 is the least permeable). | Number of drops which went into/through the rock. | Actual Ranking 1 – 6  (1 is the least permeable). |
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| Which of the rocks did you predict correctly? | | | |
| From these results, which of the rocks would you use for your time capsule monument? Give a reason. | | | |
| Looking at **BOTH SETS** of results, which rock has the best combination of **hardness AND permeability** to make it the best one for your monument? How do you know? | | | |