**🧩 Activity 2: Crossword Puzzle – “Water Wisdom Grid”**

**🎙️ Activity Introduction**

"Water terms are all around you — in science, at home, and even in your kettle! Use your knowledge to solve this crossword puzzle. Each clue reveals a word linked to soft or hard water. Let us see how many you can crack!"

**🛠 Developer Guide Instructions**

* Display a **6-word interactive crossword grid** with **animated ripple effects** for each correct word.
* Each square should **auto-check and lock** when correct.
* Provide **automatic marking** of correct or incorrect entries.
* **Highlight** the entire grid once all words are correct.
* Play a **completion animation** when the puzzle is solved.

**🖥 Learner Instructions (On-Screen)**

* "Click on a clue number to highlight its answer space."
* "Type the correct answer in the highlighted boxes."
* "Press Enter or click away to check your entry."
* "Continue until all six words are complete."

**💡 Hints (On-Screen)**

* "All answers are related to water hardness or softness."
* "Think about minerals, chemical reactions, and water treatment methods."
* "Some clues may have similar or repeated answers."

**📜 Activity Content – Crossword Clues and Answers**

| **Clue Number** | **Clue** | **Answer** | **Letters** |
| --- | --- | --- | --- |
| 1 | Mineral in hard water good for bones | CALCIUM | 7 |
| 2 | White deposit in kettles | SCUM | 4 |
| 3 | Soft water lacks this taste | FLAT | 4 |
| 4 | Forms when soap reacts with hard water | SCUM | 4 |
| 5 | Method to remove all hardness | DISTILLATION | 12 |
| 6 | Type of hardness removable by boiling | TEMPORARY | 9 |

**🎙️ Activity Conclusion**

"Brilliant work! You have cracked the water wisdom grid. These words will help you speak like a water science expert — keep it flowing!"