1. Try this **Formula Card Game**. It may help you to remember some chemical formulae. Make a pack of 52 cards from blank pieces of cardboard. On one side only print in bold letter(s) the chemical symbol of an element. Make up the following numbers of each chemical symbol, as shown in the table. There should be 52 cards in total, each with a chemical symbol, to make up the playing pack.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>K</th>
<th>Na</th>
<th>Mg</th>
<th>Ca</th>
<th>Fe</th>
<th>Cu</th>
<th>Zn</th>
<th>Al</th>
<th>C</th>
<th>N</th>
<th>P</th>
<th>O</th>
<th>S</th>
<th>Cl</th>
<th>Br</th>
<th>I</th>
<th>H</th>
<th>He</th>
<th>Ne</th>
<th>Ar</th>
<th>Kr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<td>6</td>
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<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**How to play:**

1. Shuffle the pack and deal five cards to each player (maximum of four players).
2. Place the remaining pack of cards face down in the middle of the table.
3. Each player in turn should try to make up chemical formulae with at least three atoms using the symbols of the cards he has been dealt. For example CaCO$_3$ would need five cards (one calcium, one carbon, three oxygen) and would score 5 points.
4. When a player makes up a formula he should place the cards down in front of himself. The player can only do this when it is their turn. Other players must agree that this is the correct chemical formula. Such cards used in a formula play no further part in the game.
5. The player should then pick up new cards from the pack in the centre to make sure that there are always five cards in the hand.
6. When it's a player's turn, and he can't make up any formula, he can discard any one card and replace it with a new card from the top of the central pack. There must always be five cards in the hand and the rejected cards must be placed on the bottom of the central pack.
7. When the central pack has been used up, it should be reshuffled and the game continues.
8. The winner is the first player to achieve exactly 13 points.