

## Good practices

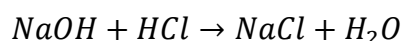
### SCIEN\_709BC\_EN

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Description of the problem / exercise: **Poly-Universal tiles in chemistry**

The Poly-Universal basic elements can be used for representing chemical reactions. For example:

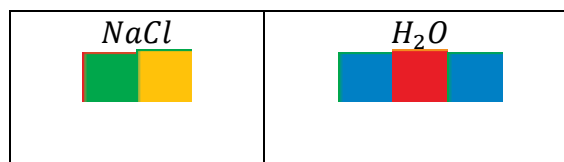


|                                 |               |              |              |               |
|---------------------------------|---------------|--------------|--------------|---------------|
| Atoms and their representations | <i>Na</i><br> | <i>O</i><br> | <i>H</i><br> | <i>Cl</i><br> |
|---------------------------------|---------------|--------------|--------------|---------------|

The students represent the molecules of the substances that react with each other using the basic elements:



Then they regroup the elements and in this way they represent the chemical reaction. As a result they get the new substances:



Analyzing the representations above the student can write down the chemical reaction using symbols.

- *Why this exercise is good:* Competences which are developed and knowledge which is deepening, creativity, communication skills, collaboration skills.
- *Level of teacher Training:* Primary school upper grade, secondary school
- *School subject(s):* Chemistry
- *Comments:* For ages over 12 years