

♦ Using Science Skills

Compound name	Formula
hydrochloric acid	HCl
hydrogen iodide	HI
lithium chloride	LiCl
water	H ₂ O

26. Applying Concepts Write and balance the following chemical reactions.

a. Hydrogen (H₂) reacts with iodine (I₂) to form hydrogen iodide.



b. Lithium (Li) and hydrochloric acid react to produce hydrogen (H₂) and lithium chloride.



c. When you run an electrical current through water, you get hydrogen (H₂) and oxygen (O₂).



27. Classify as decomposition, synthesis, single replacement, or double replacement

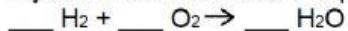
28. When baking soda and vinegar are combined, gas bubbles form, the vinegar smell disappears, and the mixture gets colder. Has a chemical or physical change taken place? How do you know?

This (is is not) a chemical change because (a no) new substance was produced.

If the was a reaction was it endothermic or exothermic

29. When balancing a chemical equation, why can you change the coefficients but not the subscripts?

If you want to balance this equation:



Why is this not correct?

