

Score:

Name:

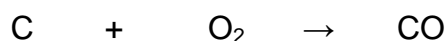
Class:

CHEMICKÉ REAKCIE - daltonské zadanie s metódou CLIL pre IX. ročník

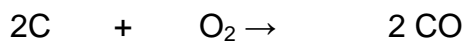
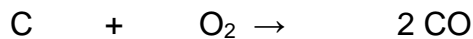
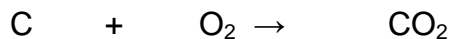
1) Which of the following equations are **balanced** correctly? Tick the correct boxes.

	<u>Correctly balanced</u>	<u>Incorrectly balanced</u>
a) $\text{H}_2 + \text{Cl}_2 \rightarrow 2\text{HCl}$	<input type="checkbox"/>	<input type="checkbox"/>
b) $\text{CuO} + \text{HCl} \rightarrow \text{CuCl}_2 + \text{H}_2\text{O}$	<input type="checkbox"/>	<input type="checkbox"/>
c) $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$	<input type="checkbox"/>	<input type="checkbox"/>
d) $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$	<input type="checkbox"/>	<input type="checkbox"/>
e) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$	<input type="checkbox"/>	<input type="checkbox"/>

2) Here is the equation for the formation of carbon monoxide in a poorly ventilated gas fire. It is **not balanced correctly**



Circle the **correctly balanced** version of this equation



3) In a book, this is the description of a reaction:

Hydrogen chloride is produced by the chemical reaction of hydrogen with chlorine.

a) What are the **reactants** and **products** in this reaction?

Reactants

Products



b) Write the **word equation** for this reaction.

.....

c) Write **the balanced symbol equation** for this reaction.

.....

4) In a book, this is the description of a reaction:

Ammonia is produced by the chemical reaction of nitrogen with hydrogen.

d) What are the **reactants** and **products** in this reaction?

Reactants

Products

e) Write the **word equation** for this reaction.

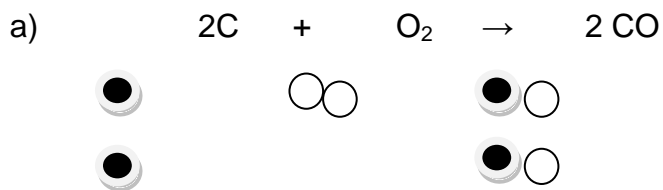
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f) Write **the balanced symbol equation** for this reaction.

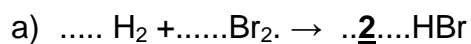
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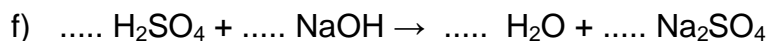
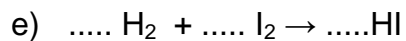
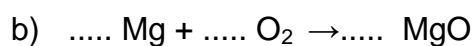
5) Write out **the balance symbol** equations for the Picture equations below (some of which are unbalanced)



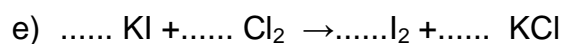
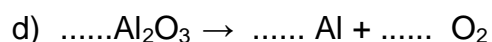
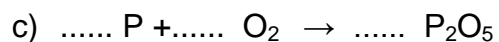
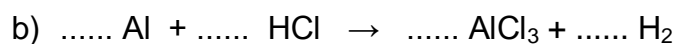
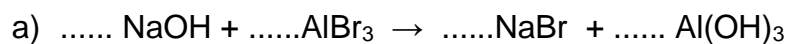
6) Add **one** number to each of these equations so that they are correctly balanced.



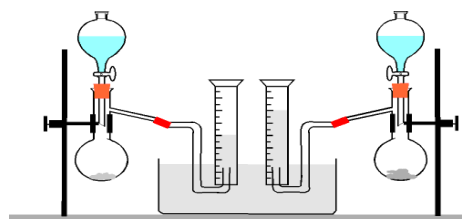
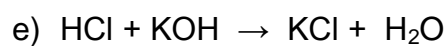
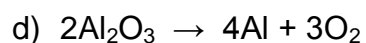
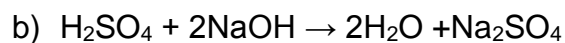
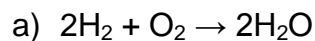
you need to have 2 bromines and 2 hydrogens on the left



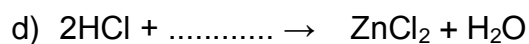
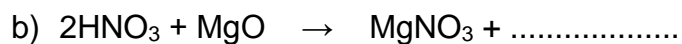
7) **Balance** these equations by adding in numbers.



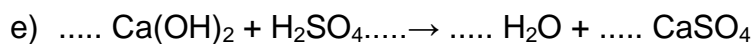
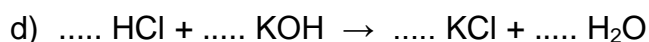
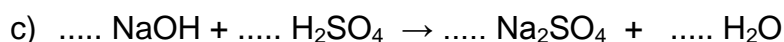
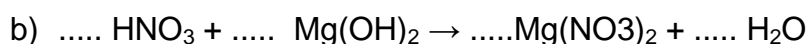
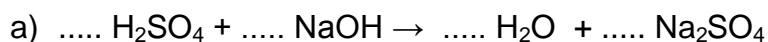
8) **Circle** the neutralisation reactions.



9) **Complete** the following equations.



10) **Balance** the following acid/base reactions.



Zdroje:



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http://www.infovek.sk/predmety/matem/mater/cd/cdikt/internet/infovek/www.infovek.sk/predmety/chemia/temuc/ae/www/GIF/6_12.GIF

<http://www.eaktovka.sk/catalogue/view/chemia-pre-8-rocnik-zakladnej-skoly-a-3-rocnik-gymnazia-s-osemrocnym-studiom-1/back:Y2F0YWxvZ3VIL215>

<http://www.tiskatka.cz/3-3-large/sada-smajliku.jpg>



Európska únia
Európsky sociálny fond



Agentúra
Ministerstva školstva, vedy, výskumu a športu SR
pre štrukturálne fondy EÚ



Operačný program
VZDELÁVANIE



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