



GYMNAZIUM SOBRANCE

Projekt Erasmus Plus KA 101

Inovatívnosť a flexibilita - záruka kvality vzdelávania

Pracovný list

Predmet:

chémia

Názov tematického celku: Periodická sústava chemických prvkov

Názov učebnej látky: Periodická tabuľka chemických prvkov a periodický zákon

Trieda: Kvinta

Dátum: 6. 8. 2019

Aktivity:

1. Video s názvom The periodic table

<https://www.youtube.com/watch?v=uPkEGAHo78o&t=182s>

2. Work sheet:

Periodic Table of the Elements

| | | | | | | | |
|--------|----|--------------|--------|-----|----|---------------|--------|
| 1 | H | Hydrogen | 1.008 | 2 | He | Helium | 4.003 |
| 3 | Li | Lithium | 6.941 | 4 | Be | Beryllium | 9.012 |
| 11 | Na | Sodium | 22.99 | 12 | Mg | Magnesium | 24.31 |
| 19 | K | Potassium | 39.10 | 20 | Ca | Calcium | 40.08 |
| 37 | Rb | Rubidium | 84.91 | 38 | Sr | Bromium | 87.63 |
| 55 | Cs | Ceasium | 132.91 | 56 | Ba | Barium | 137.34 |
| 87 | Fr | Francium | (223) | 88 | Ra | Radium | (226) |
| 89–103 | Ac | Actinoids | | 104 | Rf | Rutherfordium | (260) |
| 104 | Th | Thorium | (232) | 105 | Pa | Protactinium | (231) |
| 106 | U | Uranium | (238) | 107 | Np | Neptunium | (237) |
| 108 | Sg | Seaborgium | (251) | 109 | Pu | Plutonium | (244) |
| 109 | Bh | Bohrium | (270) | 110 | Hs | Hassium | (269) |
| 110 | Mt | Mendelevium | (270) | 111 | Ds | Darmstadtium | (281) |
| 112 | Rg | Roentgenium | (280) | 113 | Cn | Copernicium | (285) |
| 114 | Nh | Nihonium | (286) | 115 | Fl | Flerovium | (289) |
| 116 | Mc | Moscovium | (288) | 117 | Lv | Livermorium | (291) |
| 118 | Ts | Tennessee | (294) | 119 | Og | Oganesson | (294) |
| 57 | La | Lanthanum | (138) | 58 | Ce | Cerium | (140) |
| 59 | Pr | Praseodymium | (141) | 60 | Nd | Neodymium | (142) |
| 61 | Pm | Promethium | (145) | 62 | Sm | Samarium | (151) |
| 63 | Eu | Europium | (152) | 64 | Gd | Gadolinium | (157) |
| 65 | Tb | Terbium | (158) | 66 | Dy | Dysprosium | (162) |
| 67 | Ho | Holmium | (164) | 68 | Er | Erbium | (165) |
| 69 | Tm | Thulium | (173) | 70 | Yb | Ytterbium | (174) |
| 71 | Lu | Lutetium | (176) | | | | |
| 89 | Ac | Actinium | (227) | 90 | Th | Thorium | (232) |
| 91 | Pa | Protactinium | (231) | 92 | U | Uranium | (238) |
| 93 | Np | Neptunium | (237) | 94 | Pu | Plutonium | (244) |
| 95 | Am | Americium | (243) | 96 | Cm | Curium | (247) |
| 97 | Bk | Berkelium | (247) | 98 | Cf | Californium | (250) |
| 99 | Es | Einsteinium | (252) | 100 | Fm | Fermium | (253) |
| 101 | Md | Mendelevium | (256) | 102 | No | Nobelium | (259) |
| 103 | Lr | Lawrencium | (260) | | | | |

- How many kinds of atoms are exist?
a) 95 b) 46 c) 80 d) 92
- Who has discovered the periodic law?
a) Aristoteles b) Mendel c) Laurent de Lavoisier d) Mendelejev
- An element is a substance made of only one kind of atom.
a) Its true or b) false
- How many elements are there in modern periodic table?
a) 100 b) 92 c) 114 d) 118
- In how many vertical columns are arranged the periodic table?
a) 7 b) 10 c) 20 d) 15 e) 18
- How we called the columns in PTE?
a) Roads b) groups c) rows d) lines
- How we called the horizontal line of element?
a) Line b) order c) que d) row





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8. Alkali metals are elements of II. Period.
a) True b) false
 9. How we called the elements of 18 th group?
a) Alcali non-metals, b) chalcogens c) Noble gases d) halogens
 10. How we called the elements of 17 group?
a) Alcali metals b) halogens c) Noble gases d) metals
 11. Choose correct answer of periodic table:
a) What is the name of atomic number 30?
.....
b) What is the name of atomic number 3?
.....
c) What is the atomic number of calcium?
.....
d) Which row is sulfur in?
.....
e) Choose one of the elements of third row.
.....
f) Which properties are belong to metals?
a) shiny b) electric conductor c) malleable d) magnetic
g) sulfur and selenium don't connect the electricity.
True and false
 - h) Opposite property of malleable is
1) Aironic 2) liquid 3) brittle 4) shiny 5) magnetic
i) Non-metals are situated on left side of diagonal of semi metals.
True or false
j) Metals are situated on right hand side of diagonal of semi metals.
True or false

3. **Kontrola vedomosti s možnosťou získania motivačnej známky.**

Táto aktivita prebieha v prostredí Socrative v ktorom žiaci môžu on-line hlasovacím zariadením odpovedať na 10 otázok z preberanej témy. Po skončení kvízu žiaci majú možnosť oboznačiť sa s výsledkami hlasovania a teda aj s tým ako rozšírili vedomosti z oblasti periodickej tabuľky chemických prvkov.





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Screenshot of a computer monitor showing two windows for the Socrative platform.

The top window is titled "Launch Quiz" and shows a list of quizzes:

| NAME | DATE |
|-----------------------------|----------|
| Prima | 12/9/18 |
| the periodic table | 11/30/18 |
| test fotosyntéza a dýchanie | 4/18/18 |
| fotosyntéza | 3/21/18 |
| Biol'chia | 3/17/18 |

The bottom window is titled "the periodic table" and shows a single question:

1. How many kinds of atoms are exist?

ANSWER CHOICE

| | |
|---|-----|
| A | 95 |
| B | 78 |
| C | 18 |
| D | 92 |
| E | 100 |
| F | 115 |

The answer "92" is highlighted in green.





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Periodic Table Explained: Intro. x Socrative x +

https://b.socrative.com/teacher/#edit-quiz/37409756

#2

3. An element is a substance made of many kind of atoms.

Correct Answer:

#3

6. How we called the columns in PTE?

ANSWER CHOICE

EDIT

UP DOWN

SLK 17.12.2018

