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**Označení materiálu:** VY\_32\_INOVACE\_ STEIV\_FYZIKA2\_04

**Název materiálu:** Násobky jednotek\_4.

**Tematická oblast:** Fyzika 2.ročník.

**Anotace:** Pracovní list slouží k procvičení násobků fyzikálních jednotek formou doplňovaček.

**Očekávaný výstup:** Ovládá předpony – násobky fyzikálních jednotek formou pracovních listů, požadované informace dohledá v dostupných informačních zdrojích.

**Klíčová slova:** Tera, Giga, Mega, hekto, deka, deci, centi, mili, mikro, nano, piko.

**Metodika:** Zpracovaný materiál slouží k opakování probraného učiva na téma Fyzikální jednotky a jejich násobky. Materiál lze použít k elektronické distribuci a zpětné kontrole formou vyhledaných informací.

**Obor:** Automechanik, Zámečník, Instalatér, Truhlář

**Ročník:** 2.

**Autor:** Ing. Ivan Števula

**Zpracováno dne:** 13. 9. 2013

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## Doplňovačka – známý fyzik

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| 10 2 |  |  |  |  |  |  |  |  |  |
| 10 6 |  |  |  |  |  |  |  |  |  |
| 10 -9 |  |  |  |  |  |  |  |  |  |
| s |  |  |  |  |  |  |  |  |  |
| 10 -2 |  |  |  |  |  |  |  |  |  |
| 10 2 |  |  |  |  |  |  |  |  |  |
| 10 -6 |  |  |  |  |  |  |  |  |  |
| 10 -3 |  |  |  |  |  |  |  |  |  |
| s |  |  |  |  |  |  |  |  |  |
| 10 12 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |
| 10 9 |  |  |  |  |  |  |  |  |  |
| 10 -9 |  |  |  |  |  |  |  |  |  |
| 10 3 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |
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| 10 -2 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |

## Z dostupných zdrojů zpracujte krátkou informační zprávu o známém fyzikovi v rozsahu 5 minut.

## Doplňovačka – známý fyzik

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| 10 -1 |  |  |  |  |  |  |  |  |  |
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| 10 -2 |  |  |  |  |  |  |  |  |  |
| 10 -6 |  |  |  |  |  |  |  |  |  |
| u |  |  |  |  |  |  |  |  |  |
| 10 12 |  |  |  |  |  |  |  |  |  |
| 10 2 |  |  |  |  |  |  |  |  |  |
| 10 6 |  |  |  |  |  |  |  |  |  |
| 10 -6 |  |  |  |  |  |  |  |  |  |
| f |  |  |  |  |  |  |  |  |  |
| 10 -12 |  |  |  |  |  |  |  |  |  |
| 10 12 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |

## Z dostupných zdrojů zpracujte krátkou informační zprávu o známém fyzikovi v rozsahu 5 minut.

## Doplňovačka – známý fyzik

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| 10 6 |  |  |  |  |  |  |  |  |  |
| 10 12 |  |  |  |  |  |  |  |  |  |
| 10 3 |  |  |  |  |  |  |  |  |  |
| f |  |  |  |  |  |  |  |  |  |
| 10 -2 |  |  |  |  |  |  |  |  |  |
| 10 -6 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |
| 10 -3 |  |  |  |  |  |  |  |  |  |
| 10 -9 |  |  |  |  |  |  |  |  |  |
| 10 1 |  |  |  |  |  |  |  |  |  |
| 10 -2 |  |  |  |  |  |  |  |  |  |
| 10 -1 |  |  |  |  |  |  |  |  |  |
| b |  |  |  |  |  |  |  |  |  |
| 10 12 |  |  |  |  |  |  |  |  |  |
| 10 6 |  |  |  |  |  |  |  |  |  |
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| 10 -2 |  |  |  |  |  |  |  |  |  |

## Z dostupných zdrojů zpracujte krátkou informační zprávu o známém fyzikovi v rozsahu 5 minut.

## Řešení doplňovaček:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hans Christian Oersted | | | |  |  |  |  |  |  |  |  |  |
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| 10 2 |  |  |  |  | **h** | e | k | t | o |  | Tera | 10 12 |
| 10 6 |  | M | e | g | **a** |  |  |  |  |  | Giga | 10 9 |
| 10 -9 |  |  | n | a | **n** | o |  |  |  |  | Mega | 10 6 |
| s |  |  |  |  | **s** |  |  |  |  |  | kilo | 10 3 |
| 10 -2 |  |  |  |  | **c** | e | n | t | i |  | hekto | 10 2 |
| 10 2 |  |  |  |  | **h** | e | k | t | o |  | deka | 10 1 |
| 10 -6 |  | m | i | k | **r** | o |  |  |  |  | metr | 1 |
| 10 -3 |  |  |  | m | **i** | l | i |  |  |  | deci | 10-1 |
| s |  |  |  |  | **s** |  |  |  |  |  | centi | 10-2 |
| 10 12 |  |  |  |  | **T** | e | r | a |  |  | mili | 10-3 |
| 10 -1 |  | d | e | c | **i** |  |  |  |  |  | mikro | 10-6 |
| 10 9 |  | G | i | g | **a** |  |  |  |  |  | nano | 10-9 |
| 10 -9 |  |  | n | a | **n** | o |  |  |  |  | piko | 10-12 |
| 10 3 |  | k | i | l | **o** |  |  |  |  |  |  |  |
| 10 -1 |  |  |  | d | **e** | c | i |  |  |  |  |  |
| 10 -6 |  | m | i | k | **r** | o |  |  |  |  |  |  |
| s |  |  |  |  | **s** |  |  |  |  |  |  |  |
| 10 2 |  | h | e | k | **t** | o |  |  |  |  |  |  |
| 10 -2 |  |  |  | c | **e** | n | t | i |  |  |  |  |
| 10 -1 |  |  |  |  | **d** | e | c | i |  |  |  |  |

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| Ernest Rutherford | | |  |  |  |  |  |  |  |  |  |  |
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| 10 12 |  |  |  | T | **e** | r | a |  |  |  | Tera | 10 12 |
| 10 -6 |  | m | i | k | **r** | o |  |  |  |  | Giga | 10 9 |
| 10 -9 |  |  | n | a | **n** | o |  |  |  |  | Mega | 10 6 |
| 10 -1 |  |  |  | d | **e** | c | i |  |  |  | kilo | 10 3 |
| s |  |  |  |  | **s** |  |  |  |  |  | hekto | 10 2 |
| 10 -2 |  | c | e | n | **t** | i |  |  |  |  | deka | 10 1 |
| 10 -6 |  | m | i | k | **r** | o |  |  |  |  | metr | 1 |
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| 10 12 |  |  |  |  | **T** | e | r | a |  |  | centi | 10-2 |
| 10 2 |  |  |  |  | **h** | e | k | t | o |  | mili | 10-3 |
| 10 6 |  |  |  | M | **e** | g | a |  |  |  | mikro | 10-6 |
| 10 -6 |  | m | i | k | **r** | o |  |  |  |  | nano | 10-9 |
| f |  |  |  |  | **f** |  |  |  |  |  | piko | 10-12 |
| 10 -12 |  | p | i | k | **o** |  |  |  |  |  |  |  |
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| Karl Ferdinand Braun | | | |  |  |  |  |  |  |  |  |  |
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| 10 6 |  | M | e | g | **a** |  |  |  |  |  | Giga | 10 9 |
| 10 12 |  |  | T | e | **r** | a |  |  |  |  | Mega | 10 6 |
| 10 3 |  |  | k | i | **l** | o |  |  |  |  | kilo | 10 3 |
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| 10 -6 |  | m | i | k | **r** | o |  |  |  |  | metr | 1 |
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| 10 -3 |  |  |  | m | **i** | l | i |  |  |  | centi | 10-2 |
| 10 -9 |  |  | n | a | **n** | o |  |  |  |  | mili | 10-3 |
| 10 1 |  | d | e | k | **a** |  |  |  |  |  | mikro | 10-6 |
| 10 -2 |  |  | c | e | **n** | t | i |  |  |  | nano | 10-9 |
| 10 -1 |  |  |  |  | **d** | e | c | i |  |  | piko | 10-12 |
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