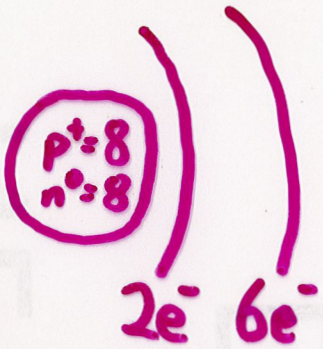
Practice Exercises: Name: _____

Bohr – Rutherford Atomic Models (Elements 1-18)

Fill in the information for the following Elements and then draw the atomic diagram for each.

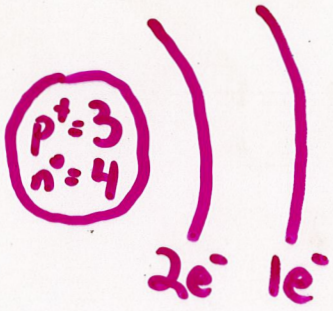
a) OXYGEN ATOM

Atomic Symbol: O
Atomic Number: 8
Atomic Mass: 16
of p^+: 8
of e^-: 8
of n^o: 16-8=8



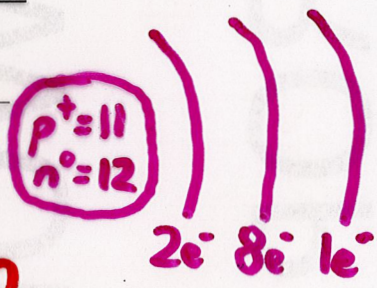
b) LITHIUM ATOM

Atomic Symbol: Li
Atomic Number: 3
Atomic Mass: 7
of p^+: 3
of e^-: 3
of n^o: 7-3=4



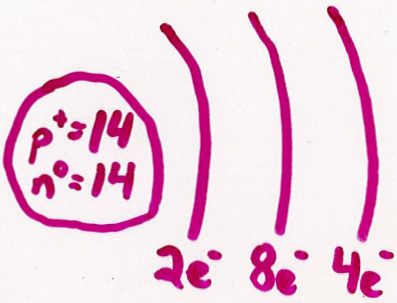
c) Sodium ATOM

Atomic Symbol: Na
Atomic Number: 11
Atomic Mass: 23
of p^+: 11
of e^-: 11
of n^o: 23-11=12



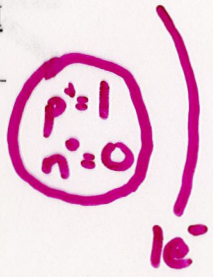
d) SILICON ATOM

Atomic Symbol: Si
Atomic Number: 14
Atomic Mass: 28
of p^+: 14
of e^-: 14
of n^o: 28-14=14



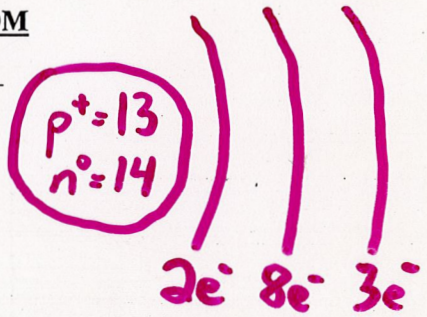
e) HYDROGEN ATOM

Atomic Symbol: H
Atomic Number: 1
Atomic Mass: 1
of p^+: 1
of e^-: 1
of n^o: 1-1=0



f) Aluminum ATOM

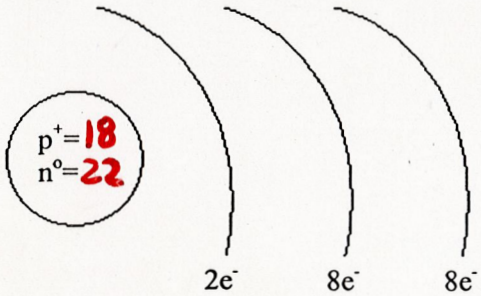
Atomic Symbol: Al
Atomic Number: 13
Atomic Mass: 27
of p^+: 13
of e^-: 13
of n^o: 14



g) Use the information contained in the following diagram to fill in the missing information

Argon ATOM

Atomic Symbol: Ar
Atomic Number: 18
Atomic Mass: 40
of p^+: 18
of e^-: 18
of n^o: 40-18=22



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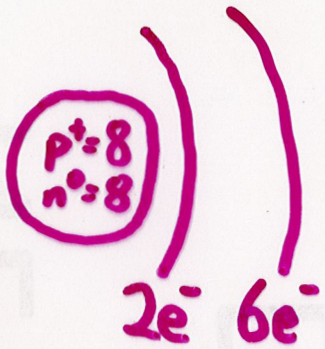

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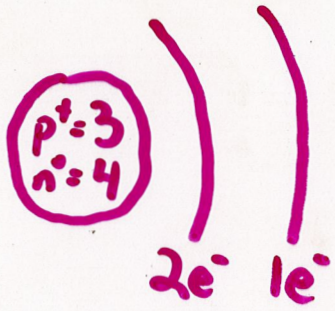

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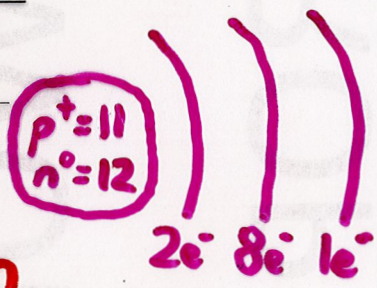

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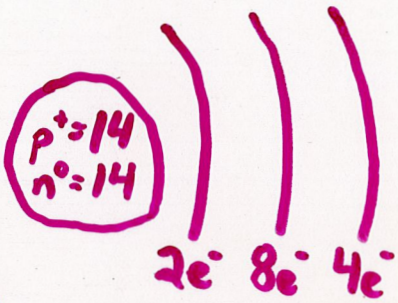
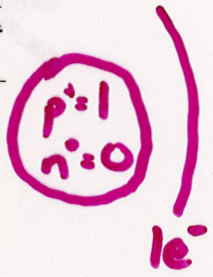


e) HYDROGEN ATOM

Atomic Symbol: H
Atomic Number: 1
Atomic Mass: 1
of p^+: 1
of e^-: 1
of n^o: 1-1=0



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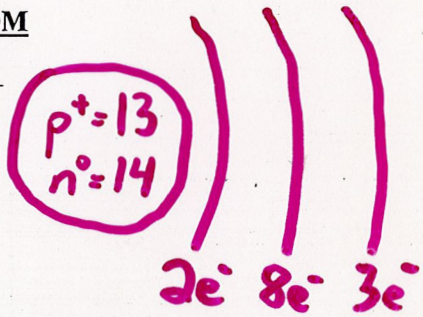

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