

Atoms & the
Periodic Table

JEOPARDY

Things that make you go, hmm?	Practice & Repeat	How Many?	What's The Trend?	Over & Over
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>

Things that make you go, hmm?

100

Q: Subatomic particle that carries a neutral charge

A: What is a neutron?

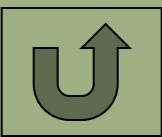


Things that make you go, hmm?

200

Q: Subatomic particle that carries a positive charge

A: What is a proton?



Things that make you go, hmm?

300

Q: Subatomic particle that carries a negative charge

A: What is an electron?



Things that make you go, hmm?

400

Q: Particles of matter that make up protons & neutrons

A: What are quarks?

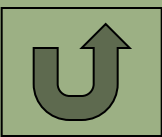


Things that make you go, hmm?

500

Q: The numbers of either protons or electrons, in a neutral atom

A: What is the Atomic Number?



Practice & Repeat

100

Q: These have the same number of protons, but differ in their numbers of neutrons

A: What are isotopes?



Practice & Repeat

200

Q: These have the same number of protons & neutrons, but differ in electron numbers

A: What is an ion?



Practice & Repeat

300

Q: The number of protons PLUS the number of neutrons

A: What is Mass Number?

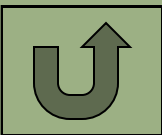


Practice & Repeat

400

Q: A name for an atom that loses an electron

A: What is a cation?



Practice & Repeat

500

Q: A name for an atom that gains an electron

A: What is an anion?



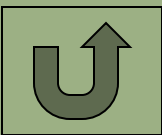
How Many?

100

Q: This is the mass number of the following element



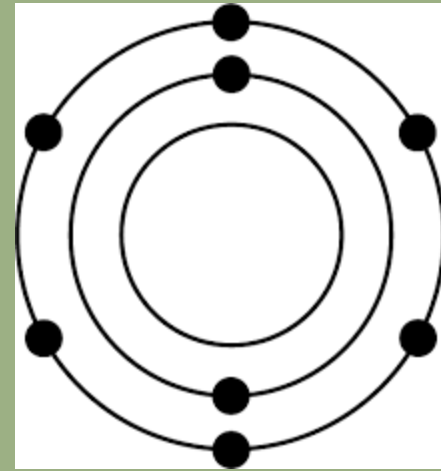
A: What is 16 amu?



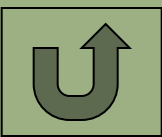
How Many?

200

Q: This is the name of the element pictured here



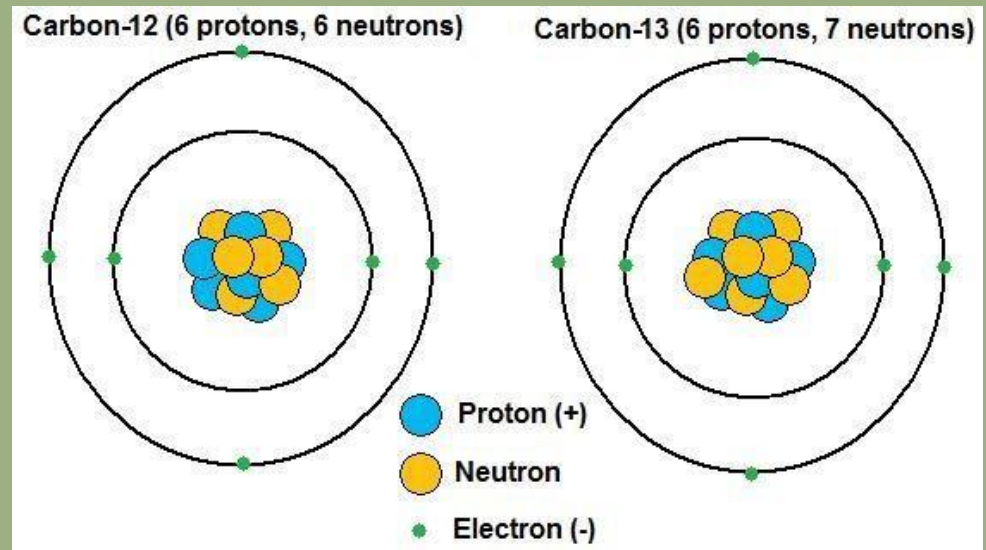
A: What is Oxygen?



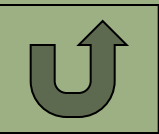
How Many?

300

Q: The following
are examples of



A: What are isotopes?

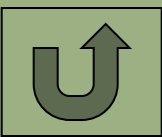


How Many?

400

Q: I have 17 protons are I have gained 1 electron, so I am

A: What is Cl^{1-} ?



How Many?

500

Q: I am an isotope of Sulfur & I have 20 neutrons, that makes my mass number this

A: What is 36 amu?



What's the Trend?

100

Q: Elements that are gases & brittle solids; poor conductors

A: What are Non-Metals?



What's the Trend?

200

Q: This element is grouped with alkali metals rather than non-metal, gases due to its one electron in its outer & only energy level

A: What is Hydrogen?



What's the Trend?

300

Q: Metals can be used as wire because of this

A: What is ductility?



What's the Trend?

400

Q: Substances that conduct electricity only under certain conditions

A: What are Metalloids?



What's the Trend?

500

Q: The appearance of solid metals can be described as this

A: What is shiny (lustrous) & silvery?



Over & Over

100

Q: Horizontal rows of the periodic table

A: What are periods?



Over & Over

200

Q: Vertical columns of the periodic table

A: What are families or groups?

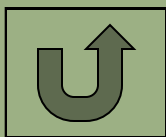


Over & Over

300

Q: This groups almost NEVER forms chemical bonds due to filled outer valence shells

A: What are Noble Gases [Group 18]?



Over & Over

400

Q: Most common metals; seen in Groups 3-12

A: What are Transition Metals?



Over & Over

500

Q: Elements in the same groups often share these

A: What are properties?

