

M13 Game Day

Friday, July 16, 2010
7:20 AM

Slides	Notes
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Team



	Definition 1	Definition 2	3	4
parietal lobe				
frontal lobe				
occipital lobe				
temporal lobe				
erebellum				

A collection of atoms that all have the same number of protons.	element
The center of an atom, containing the proton and neutrons	nucleus
Two or more atoms that all have the same number of protons but a different number of neutrons.	isotope
An atom whose nucleus is not stable.	radioactive isotope
The number of protons in an atom.	atomic number
The sum of the number of neutrons and protons in the nucleus of an atom.	atomic mass

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Parietal Lobe:

What causes the strong nuclear force, and why can this force act only over a short distance?

Answer:

The strong nuclear force is caused by the exchange of pions. These can only exist for a very short time.

Frontal Lobe:

Matching:

144 - Nd	isotope
144 - Ce	not an isotope
145 - Nd	isotope
144 - Sm	not an isotope

Occipital Lobe:

Which is larger ...

- Choose one answer.
- a. a proton
 - b. an electron

Temporal:

If a piece of paper is placed between a radioactive isotope and a person, which kind of radioactive particle will the person be protected from?

- Choose one answer.
- a. gamma
 - b. alpha
 - c. beta

Cerebellum:

A radioactive isotope has a half-life of 3.0 hours. If a scientist has 30 grams of the isotope, how much is left after 15 hours?

Answer:

0.9373 g

Matching:

Daughter product of alpha decay of 220 - Rn.

Daughter product of gamma decay of 239 - U.

Daughter product of beta decay of 144 - Ce.

Quiz: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17711>

Exam: <http://www.virtualhomeschoolgroup.com/mod/quiz/view.php?id=17713>