# Homework #11 (755128)

Current Score: 0 out of 100

### Description

Homework 11 on Fundamental Forces, and Energy. Only 10 questions.

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## 1. Hewitt10 34.E.028. [481614] 0/10 points

Which process would release energy from gold, fission or fusion?

fission
fusion
neither fission nor fusion

From carbon?

Ofission O 2 fusion O not fission nor fusion

From iron?

fission
fusion
P neither fission nor fusion

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## 2. Nuclear Energy [699288] 0/10 points

Which of the following statements about nuclear energy is true?

We are capable of using nuclear fusion to release energy.

The fusion products are extremely radioactive and have a long half-life.

ONuclear fission produces more energy per pound of fuel than nuclear fusion.

OThe fuel for fission is more abundant than the fuel for fusion.

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## 3. population [1039810] 0/10 points

What is the world's current population?

Oclose to 6 billion people

Close to 5 billion people

less than 5 billion people

Close to 7 billion people

## 4. fusion [1039808] 0/10 points

Which of the following produces the most energy per gram of material used:

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Op fusion of hydrogen into helium

fusion of carbon to make nitrogen

Ission of Uranium into Thorium

Oburning natural gas

### 5. quantized orbits [1039804] 0/10 points

The main reason that electrons occupy discrete orbits in an atom is because: Oelectrons are discrete particles Oenergy levels are quantized

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Ite circumference of each allowed orbit is an integer number of electron wavelengths electric forces act over quantized distances

### 6. energy sinks [1039812] 0/10 points

Which of the following consumes the most energy in the US?

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Otransportation

industrial construction
heating/cooling buildings

Outdoor lighting

.....

## 7. energy sources [1039811] 0/10 points

### 8. tau [1039815] 0/10 points

Which of the following is the heaviest particle?

neutrino
muon
2
electron

9. strong force [1039814] 0/10 points

Which is the strongest of the four fundamental forces

Oweak Oelectromagnetic

Ogravitational

10. neutron [1039816] 0/10 points

What is a neutron made up of?

one up quark and two down quarks
a proton and an electron squeezed together
neutrons are fundamental particles
two W bosons

Assignment Details