Fill-In-The_Blank: Plasma!

You have been told that all matter is composed of __(1)_____, but it's actually more complicated!

In the typical picture of an __(1)_____: the positively charged particles called __(2)_____ and neutrally charged particles called __(3)_____ are compressed in the center in a structure called the __(4) _____. Around the __(4)_____ are negative charged particles called __(5)_____s.

A __(2)_____ has __(6)_____ as a __(3)_____, but an __(5)_____ has __(7)_____ the mass of a __(2)_____ or __(3)_____.

Matter can take 4 states, solid, liquid, gas, and __(8)_____.

A __(8)_____ is formed when the matter becomes very, very __(9)_____, meaning the atoms are moving very quickly, and/or very, very __(10)_____.

are

In a solid, liquid, or gas, the atoms are organized in their typical form, but a __(8)_____ is very different.

In a __(8)_____, the __(5)_____ are no longer connected to the (4) _____. In fact, you can barely even describe the matter in a (8) _____ as being composed of __(1)_____ s! Instead, the matter is in a sort of a __(5)_____-__(4)_____ soup!

The process of a gas transforming into a plasma is called (11) _____ and the process of turning back into a gas is called (12)_____. This makes sense because, in chemistry, the word __(11)_____ can refer to __(5)_____s leaving an __(1)_____.

One example of a __(8)_____ is a very hot fire. It needs to be very hot for __(11)_____ to occur, a cooler fire is probably more of a gas than a __(8)_____. Another very classic example of a __(8)_____ is a __(13)_____.

But the most important example of a __(8)_____ is the core of a __(14)_____! There, many hot

__(2)_____ s, disconnected from __(5)_____ s

are able merge, which causes a star to emit masses of energy.

Answer Choices

1.
- wisps
- bloops
- atom
- neutrinos

2.
- neutrinos
- quarks
- positrons
- protons

3.
- neutrons
- tiny thingies
- baubles
- mass-pointers

4.
- Nucleus
- Core
- Quark-center
- Hamburger

5.
- Neutron
- Baryon
- Positron
- Electron

6.
- About half
- About the same
- About one 100th
- About one tenth

7.
- About one tenth
- About the same
- About half
- About one 1000th

8.
- Astromia
- Eukrasia
- Plasma
- Eureka

9.
- Bouncy
- Swell
- Cold
- Hot

10.
- Expanded
- Static
- Electric
- Compressed

11.
- Evaporation
- Composition
- Melting
- Ionization

12.
- Freezing
- Deionization
- Decomposition
- Condensation

13.
- A hot cup of tea
- Lava
- A beating heart
- A lightning bolt

14.
- apple
- atom
- star
- person