Please Note: It is recommended that you save your response as you complete each question.

Question 1 (1 point) Save

The Sun produces energy via

- fusion
- radioactive decay
- chemical reactions
- fission

Question 2 (1 point) Save

Approximately how long does it take the energy produced in the Sun's core to reach the Sun's surface?

- 2 years
- 2000 years
- 200,000 years
- 2 seconds

Question 3 (1 point) Save

In the core of the Sun, four hydrogen nuclei are fused together to form one helium nucleus. The total mass of the four hydrogen nuclei is greater than that of the helium nucleus. What happens to the missing mass?

- It is ejected from the star in flare activity.
- It reappears later as neutrinos.
- It is converted to energy.
- It is resupplied to the sun by meteoroid impacts.

Question 4 (1 point) Save

Which of the follow ing transports energy by radiation?

- boiling w ater in a pot
- a heat lamp
- a gas oven

- an electric radiator

Question 5 (1 point) Save

In the part of the Sun just beneath the photosphere, energy is transported by

- convection
- radiation
- w inds
- magnetic fields

Question 6 (1 point) Save

Which of the follow ing are produced in the Sun's core and then pass out of the Sun in only a few seconds?

- protons
- neutrinos
- photons
- helium nuclei

Save All Responses | Go To Submit Quiz