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1. hydrogen

2. (a) 5 billion years

(b) 5 billion more years

3. core, radiative zone, convection zone, photosphere, chromosphere, corona

4. 100 000 years

5. (a) prominence

(b) sunspot

6. The aurora borealis occurs when high energy plasma emitted from the Sun interacts with Earth's magnetic field.

7. The inner planets are closer to the Sun than the outer planets, are small, have rocky surfaces, have a low number of satellites (moons, for example), and have no ring systems.

The outer planets are farther from the Sun than the inner planets, are larger, have no solid surfaces, have many satellites, and all have ring systems.