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1. Sunspots are generally cooler than other parts of the Sun's surface. The umbra is around 4500 K, the penumbra is around 5500 K, and the photosphere is around 5800 K.
2. The Zeeman effect is the effect of splitting of a spectral line into several components in the presence of a static magnetic field. The magnetic fields on the photosphere are able to be measured by using the Zeeman effect.
3. The Solar cycle is 22 years. After 11 years, the North/South order of leading/trailing sun spots is reversed, caused by reversal of magnetic polarity.
4. A parsec is the distance to a star with a parallax of 1 second of an arc. Parsec is not a speed but rather a distance.
5. In astronomy, the parallax is not the only way to measure distances, as there are other methods that can be used to determine distances that are particularly far away.