Time Traveling
When we gaze at the stars, we are, in effect, looking back in time. That's because the light we see takes hundreds of years to reach us.
On a clear night, invite your child to pretend she is a star sending light through time by pointing a flashlight toward the North Star. After a few seconds, explain that because the North Star is 780 light-years away, it would be the year 2780 before her "star" beam was visible there. In the meantime, the light would travel about 6 trillion miles per year!