

The Lives of Stars—First Thoughts**E3:A0**

Previously you studied the diverse characteristics of stars that are found in the sky within reach of our eyes and our telescopes. In this Exploration, you will investigate the classification of stars and the “lives” that stars lead. As you proceed, keep in mind the following Essential Question:

How does the classification of stars help us understand how they evolve over their lifetimes?

First Thoughts—Making Claims

To begin this Exploration, you will make claims about the lives of stars.

1. What changes do you think a star undergoes in its lifetime?
2. Use drawings or words to explain how you think stars are formed, or “born.”
3. How long do you think a single star exists?
4. Do you think this is the same for all stars?
5. If not, how do stars differ in how they are born and how long they exist?



Figure 2-1: Image of the globular cluster NGC 6397. Globular clusters are packed with millions of stars