Tell Time by the Stars

How to tell time at night with a time dial:

1. Go outside on a dark, clear night with an adult. Take your time dial and a flashlight.

2. Find the Big Dipper. Use it to find Polaris, the North Star. Face the North Star. Now you are facing north.

3. Hold the time dial in front of you with the current month at the top.

4. Turn the star circle until the Big Dipper and Little Dipper match the sky. Read the time in the notch.

5. On the chart, write down the time on the time dial and the “real” time shown on a clock. If you observe daylight saving time, add 1 hour to the time dial, but only if the month is between March and November.

6. Try your time dial at two different times on the same night. Record the times.

Date: __________

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<tr>
<th>Time Dial Time</th>
<th>Real Time</th>
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<td>1.</td>
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How close was the time dial time to clock time?

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Why does the position of the stars change during the night?

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