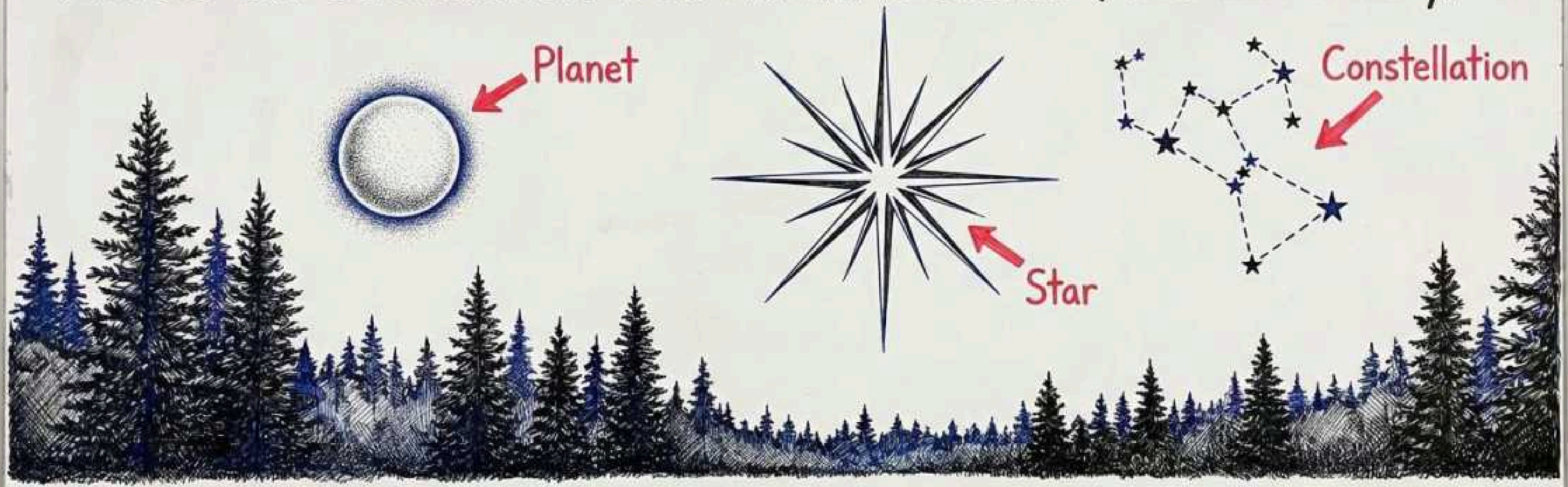
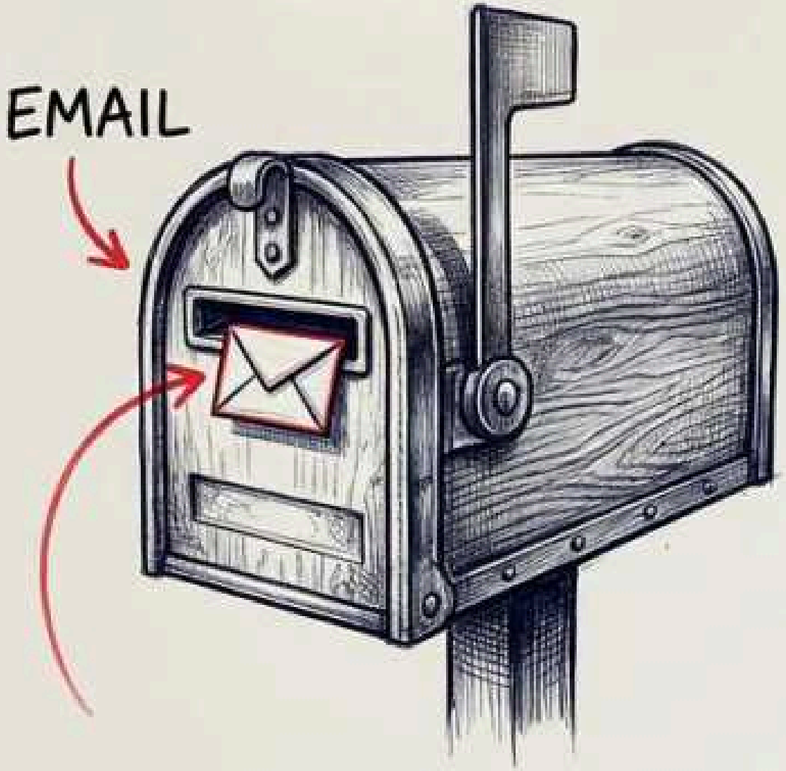
Astronomy 150 B — Stargazing

¶ 0.1

Planets and Constellations from Florida to Seattle (Anderson Academy)



Step outside → Look up → Know what you see.



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Feedback and questions are always welcome.

¶0.3



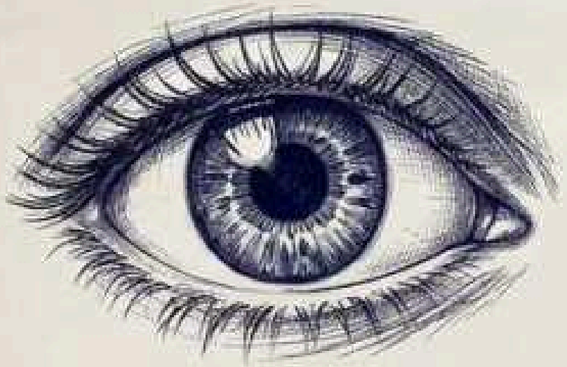
Seattle, WA: $\phi_{SEA} = 47.5° \text{ N}$

Florida: $\phi_{FL} = 25° - 30° \text{ N}$

$$\Delta\phi \approx 20°$$

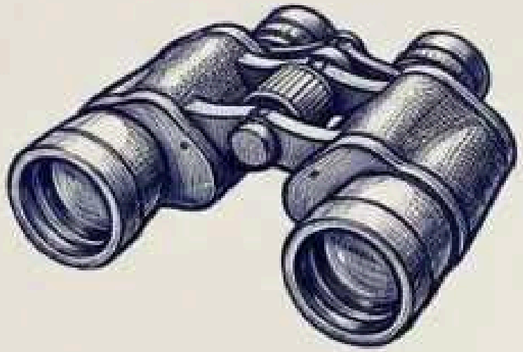
A 20° difference in latitude fundamentally changes the visible sky.
Wherever you live in North America, your sky will fall along this gradient.
This comparison teaches you how to adjust for your local horizon.

¶0.4



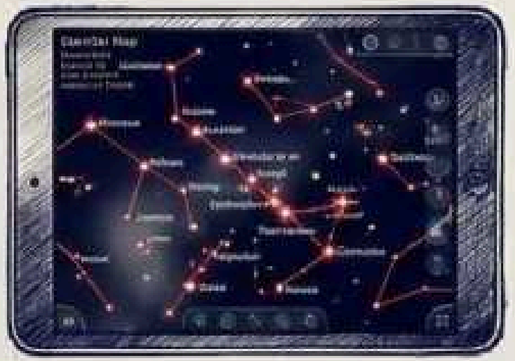
Naked Eye

Can see almost
everything in this course.



Ordinary Binoculars

Adds a great deal
of detail.



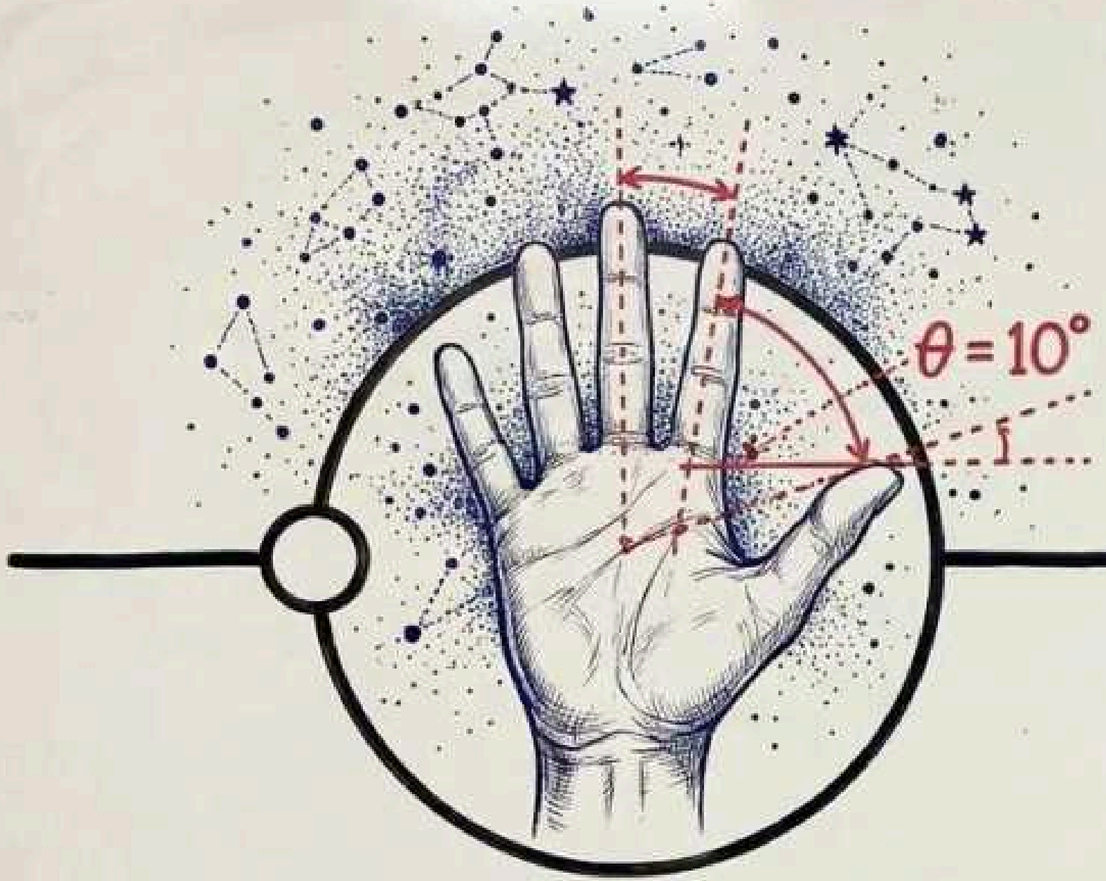
Planetarium App (e.g., Stellarium)

Useful companion for
checking your work.



Navigate the sky without a screen.

¶0.5

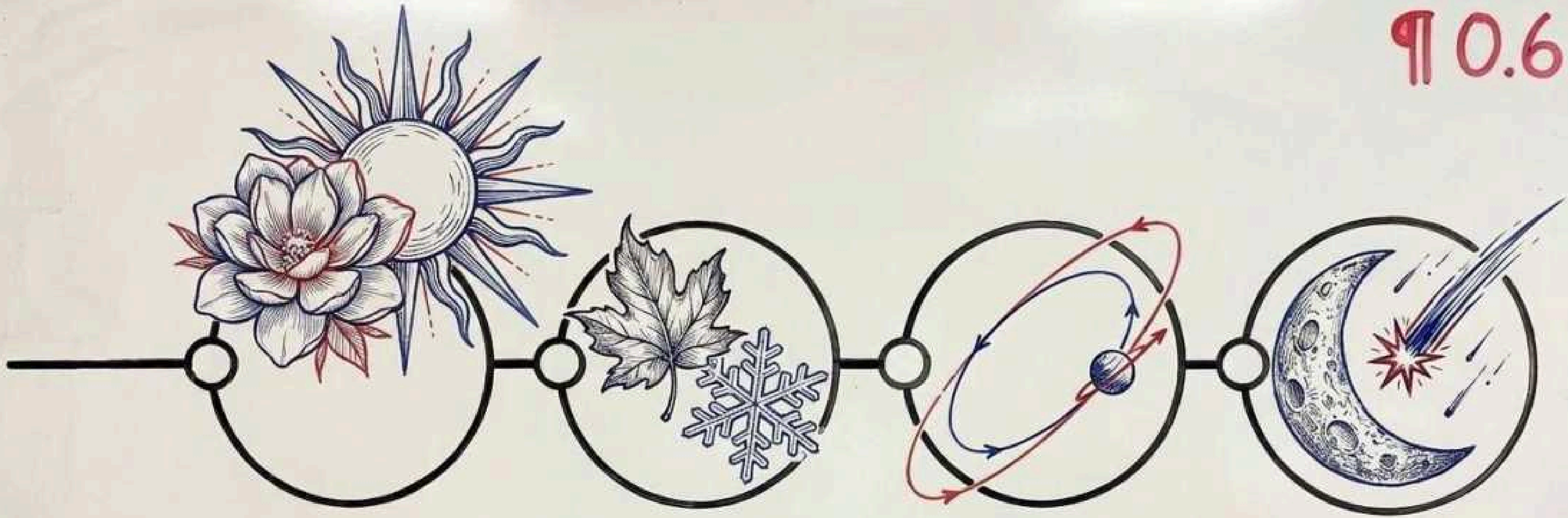




- Sky mechanics
- Latitude effects
- Hand-measuring distances

- Practical matters
- Dark adaptation
- Binoculars & Apps
- Light pollution
- Weather & Seasons (FL vs. SEA)

¶0.6



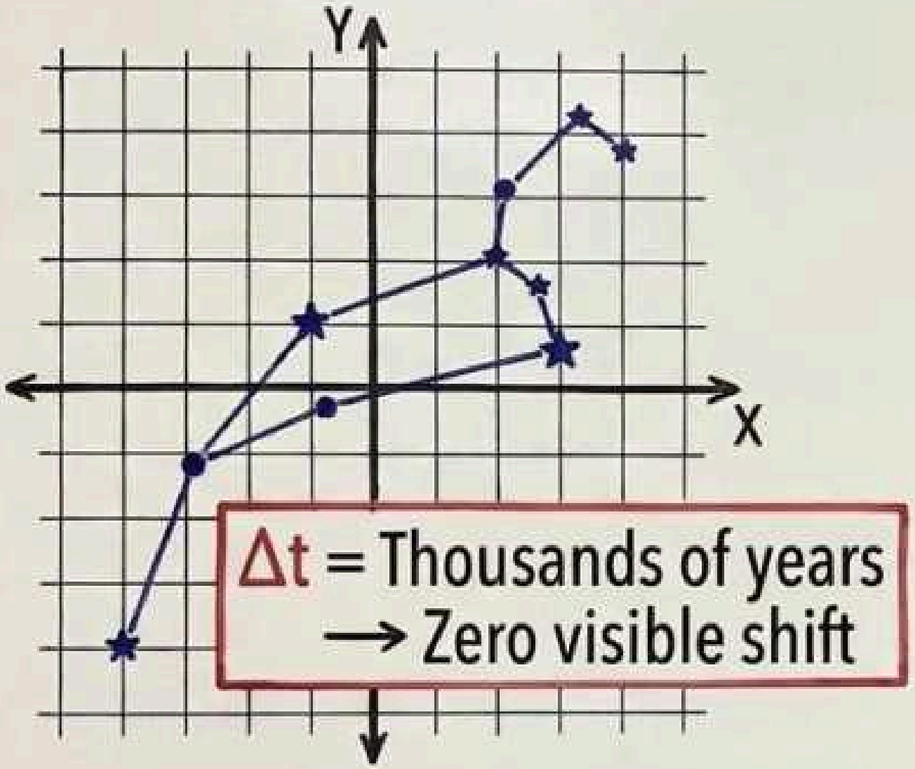
Spring & Summer Constellations

Autumn & Winter Constellations | Star-hopping routes

The 5 Naked-Eye Planets | Planet vs. Star identification

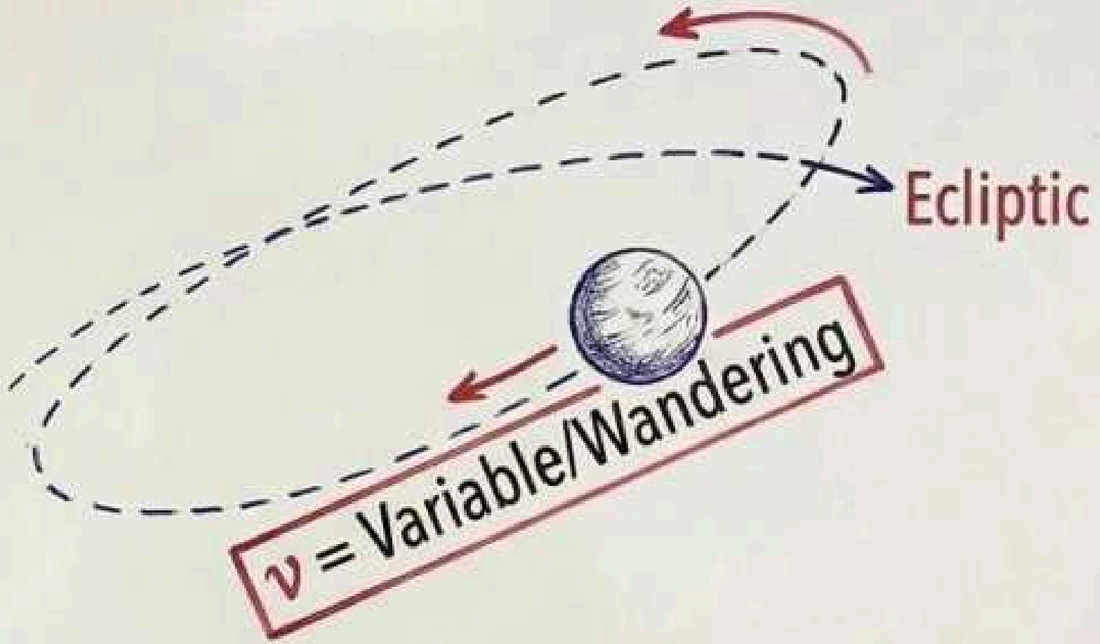
The Moon | Meteor Showers | Satellites | Aurora Final FL/SEA side-by-side synthesis

¶ 0.7



Fixed Patterns.

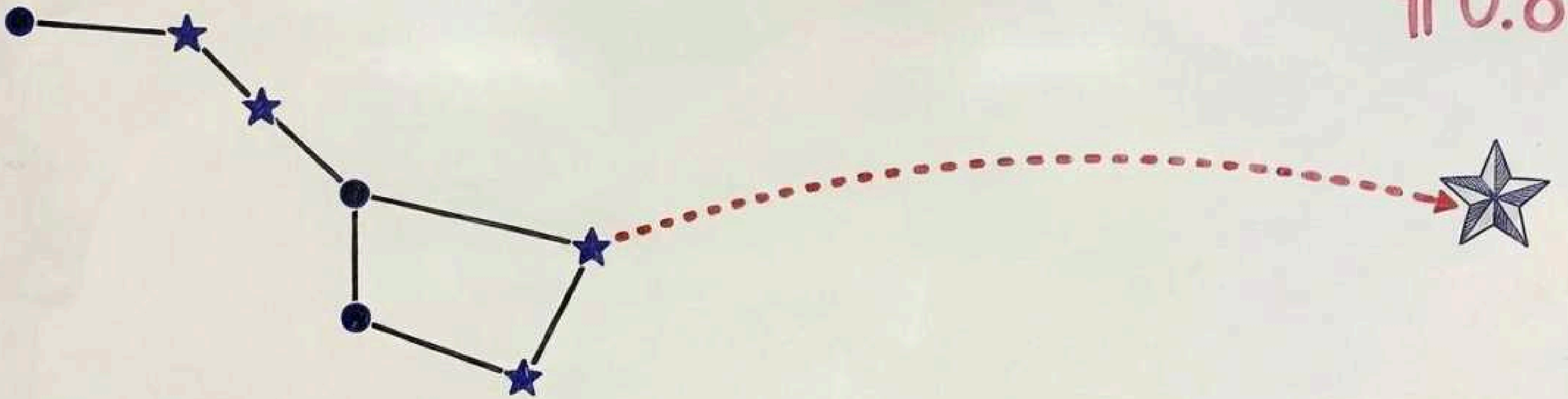
What you learn now lasts a lifetime. Constellations will not visibly change.



Wanderers.

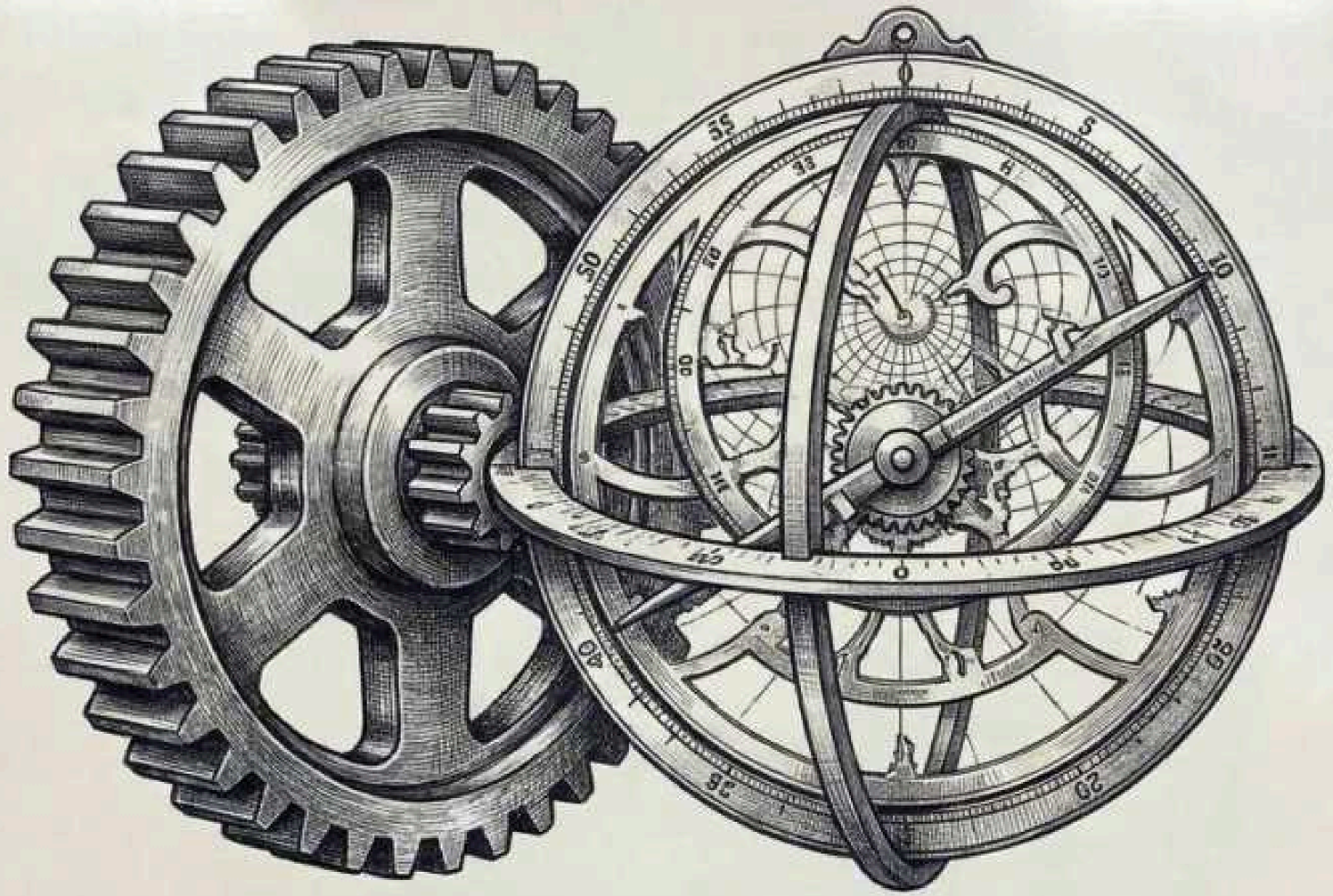
Course teaches how to recognize them, not where they are tonight. (Use an app or monthly sky guide for daily positions).

¶ 0.8



- **Core Philosophy**: Learn a few bright anchors perfectly before attempting to learn the whole sky.
- **The Master Keys**: The Big Dipper, Orion, and the Summer Triangle.
- **The Method**: Master the anchors → Hop from star to star to find the rest.

¶ 0.9



So let us begin with how the sky works.

→ Proceed to Lecture 1.