

Observatory Night Chart

HOST ONLY - preparation and story

Includes answers. Keep these pages with an adult.

The observatory has a near-match star label, two different chart copies and a telescope keeper list. Restore the reading order for tonight's imaginary sky. Collect five named badge digits and use the final sheet. Every clue is on the table; ask the host for one hint at a time.

1. Print one player pack and two record sheets per team. Keep the host answers and all three hint levels with the adult.
2. Keep every clue as a full sheet at one table. Put the final sheet face down until all five results are recorded. Nothing needs cutting, folding or hiding.
3. Give each child a pencil. Choose a reader, recorder and checker, and swap jobs after each clue. Use one team for 2-4 children or two teams for 5-6.

Players: 4; teams: 1. Print one player and prop set per team. Invitations and certificates: 4 each.

Paper and pencils are enough. Keep whole sheets at one table; nothing needs cutting, folding or hiding.

Observatory Night Chart

HOST ONLY - solution guide

1. Label: 6

Only row 3 has STAR followed immediately by 6. Other rows have changed or reversed letters.

2. Chart: 5

Different positions are 1, 3, 4, 6, 8. There are 5 differences.

3. Keeper: 9

Vega has Scope; Rigel has Pen; Deneb has Chart. Rigel's item gives 9.

4. Read: 2

The only order is Open roof > Set scope > Read chart > Record sky. Position 4 carries 2.

5. Point: 9

The route ends at row 3, column 4. That cell gives 9.

6. Final: 69259

Label > Keeper > Read > Chart > Point

Observatory Night Chart

HOST ONLY - timeline and paper check

3 minutes: Read the story, show the badge record and choose roles.

undefined minutes: Solve Label. Offer one hint level at a time if wanted.

3 minutes: Solve Chart. Offer one hint level at a time if wanted.

6 minutes: Solve Keeper. Offer one hint level at a time if wanted.

5 minutes: Solve Read. Offer one hint level at a time if wanted.

4 minutes: Solve Point. Offer one hint level at a time if wanted.

5 minutes: Use the five results on the final sheet.

2 minutes: Read the ending and thank each teammate.

Paper completion: check each badge against the solution guide, then check the final code. No device is required.

The chart order is recovered. The observatory team can draw its own new constellation. Thank your team for checking the evidence together. Confirmed final control code: 69259.

Duration and ages are estimates. Adjust pace and offer help for your group.