Four-Week Weather Project Skills Checklist

Notes for SHS • Topic 85 • Educational resource • 2026

Week 1 — Source and Python

Verify NASA API docs, select the coordinates and year, install libraries, inspect JSON keys.

Week 2 — Quality and arithmetic

Load date index, detect sentinel values and missing days, compute ranges, means, precipitation and wet-day definitions.

Week 3 — Charts and time series

Create line, bar, histogram, box and rolling-average plots with proper coverage labels.

Week 4 — Reporting

Complete the capstone, 30 questions, methods, limitations, source citation and reproduction instructions.