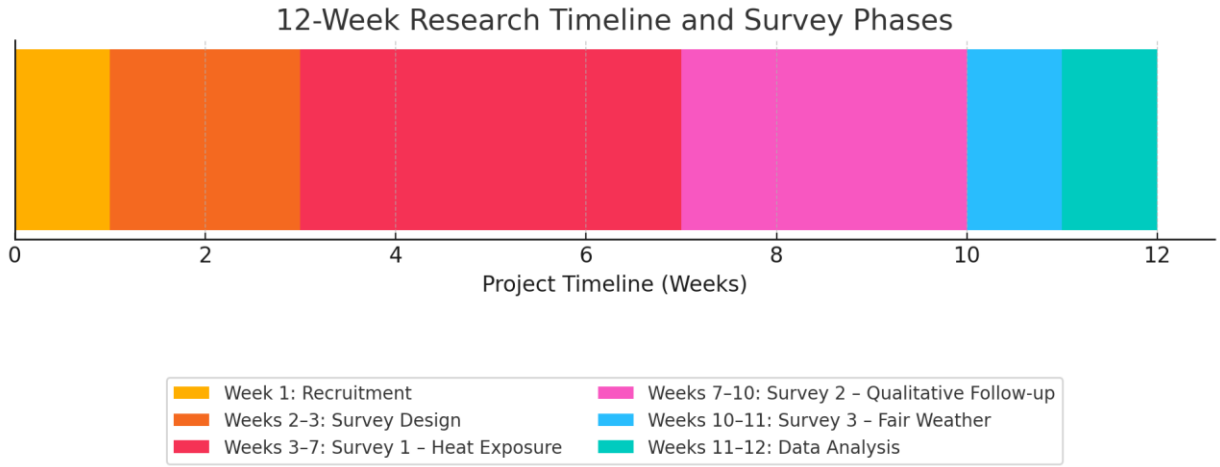
```
# Importing the required library
import matplotlib.pyplot as plt

# ------------------------------
# Background:
# This Gantt-style bar chart was designed to communicate the sequential
structure of the 12-week research project.
# It visually maps the planning, execution, and data analysis phases of
the study, including all three survey rounds.
# Each colored block represents a discrete segment of the timeline, and
the legend identifies key milestones.
# This format helps clarify the chronological progression and overlap
between recruitment, data collection, and analysis.
# ------------------------------

# Timeline segments (start week, duration, label, color)
phases = [
    (0, 1, 'Week 1: Recruitment', '#F5B800'),
    (1, 2, 'Weeks 2–3: Survey Design', '#F57200'),
    (3, 4, 'Weeks 3–7: Survey 1 – Heat Exposure', '#F34060'),
    (7, 3, 'Weeks 7–10: Survey 2 – Qualitative Follow-up', '#F565C2'),
    (10, 1, 'Weeks 10–11: Survey 3 – Fair Weather', '#3EC3F0'),
    (11, 1, 'Weeks 11–12: Data Analysis', '#12B9B4')
]

# Plot setup
fig, ax = plt.subplots(figsize=(12, 4))

# Draw bars
for start, duration, label, color in phases:
    ax.barh(0, duration, left=start, height=0.4, color=color,
edgecolor='black')

# Axis formatting
ax.set_xlim(0, 12)
ax.set_ylim(-1, 1)
ax.set_yticks([])
ax.set_xlabel('Project Timeline (Weeks)')
ax.set_title('12-Week Research Timeline and Survey Phases')

# Create legend manually
legend_labels = [label for _, _, label, _ in phases]
legend_colors = [color for _, _, _, color in phases]
legend_patches = [plt.Rectangle((0, 0), 1, 1, color=color) for color in
legend_colors]
ax.legend(legend_patches, legend_labels, loc='lower center',
bbox_to_anchor=(0.5, -0.55), ncol=2)

plt.tight_layout()
plt.show()
```


12-Week Research Timeline and Survey Phases
0
2
4
6
8
10
12
Project Timeline (Weeks)
Week 1: Recruitment
Weeks 2–3: Survey Design
Weeks 3–7: Survey 1 – Heat Exposure
Weeks 7–10: Survey 2 – Qualitative Follow-up
Weeks 10–11: Survey 3 – Fair Weather
Weeks 11–12: Data Analysis