

ASQ Survey Data Interpretation: A Quick Reference Guide

Understanding the ASQ Framework

The [Academic Skills Questionnaire \(ASQ\)](#) is a validated [TASO](#) instrument that measures four key dimensions of student academic experience using 5-point Likert scales (Strongly Disagree to Strongly Agree):

| Dimension | Description | Example Applications |
|---------------------------------|---|---|
| Academic Self-Efficacy | Students' confidence in their academic abilities | <u>Trinity College Case Study</u> and <u>Somerville Skills Hub Case Study</u> |
| Cognitive Strategies | Approaches to academic tasks and information processing | <u>Trinity College Case Study</u> and <u>Somerville Skills Hub Case Study</u> |
| Metacognitive Strategies | How students monitor and direct their learning | <u>Trinity College Case Study</u> and <u>Somerville Skills Hub Case Study</u> |
| Sense of Belonging | Connection to college and university communities | <u>Trinity College Case Study</u> and <u>Somerville Skills Hub Case Study</u> |

For comprehensive background on ASQ validation and implementation, see the [TASO FAQ document](#).

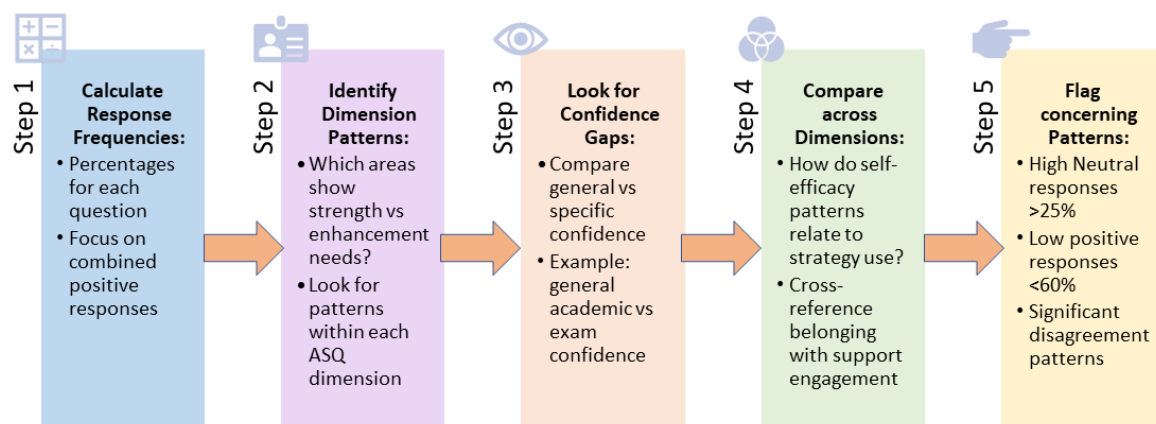
Statistical Analysis Foundations

These statistical concepts complement your existing analytical expertise by providing ASQ-specific interpretation frameworks:

| Concept | Calculation | Typical Targets | Trinity Example |
|------------------------------------|--|-----------------------------|---|
| Response Distribution | % selecting each option (Strongly Agree → Strongly Disagree) | Balanced distribution | 31.1% + 57.4% = 88.5% positive for general confidence |
| Combined Positive Responses | "Strongly Agree" + "Agree" percentages | >70% for healthy indicators | 67.2% for task-specific confidence (indicating gap) |

| Concept | Calculation | Typical Targets | Trinity Example |
|-----------------------------|-------------------------------------|------------------------|---|
| Gap Analysis | Difference between related measures | <15% difference ideal | 21.3% gap between general vs. specific confidence |
| Central Tendency Clustering | High neutral responses (>25%) | <20% neutral preferred | 26.2% neutral on information evaluation skills |

Essential Analysis Process: 5-Step Visual Framework



Interpreting Results: Visual Indicator Framework

● Positive Indicators

| Pattern | Threshold | What This Means in Practice |
|--------------------------------------|---|--|
| High Combined Positive | >75% agree/strongly agree | Students feel confident and capable in this area |
| Low Disagreement | <10% disagree/strongly disagree | Broad consensus on positive experiences |
| Strong Belonging-Support Correlation | High belonging + high support use | Students feel connected AND access resources |
| Metacognitive-Action Alignment | High strategy awareness + high implementation | Students know effective methods AND use them |

● Areas for Enhancement

| Pattern | Threshold | Recommended Focus |
|-----------------------|---------------------------|------------------------------|
| Low Combined Positive | <60% agree/strongly agree | Targeted intervention needed |

| Pattern | Threshold | Recommended Focus |
|-----------------------------|--|---|
| High Uncertainty | >25% neither agree/disagree | Clarify support pathways and expectations |
| Confidence Gaps | >15% difference between general/specific | Bridge abstract confidence to practical skills |
| Strategy-Implementation Gap | High awareness, low use | Address barriers to implementing known strategies |

College-Specific Integration Framework

| Question Type | Integration Method | Trinity College Example |
|------------------------------|--|--|
| Support Engagement | Cross-reference with ASQ confidence levels | Students accessing ASDL showed 15% higher task-specific confidence |
| Satisfaction Measures | Compare college vs. university belonging scores | 88% college satisfaction vs. 72% university satisfaction |
| Academic Transition | Analyse alongside self-efficacy by year group | First years: 67% confidence, Final years: 89% confidence |
| Resource Awareness | Correlate awareness with strategy implementation | High awareness but only 45% regular use of study skills resources |

Quick Visualisation Guide

Recommended Chart Types

Response Distribution Charts

- Use consistent colour scheme: Green (Strongly Agree) → Red (Strongly Disagree)
- Always include sample size: "n = X responses"
- Order logically: Strongly Agree → Strongly Disagree

Gap Analysis Charts

- Side-by-side bars for comparing general vs. specific measures
- Grouped bars for dimension comparisons across populations
- Highlight gaps >15% with annotations

Sample Size Interpretation

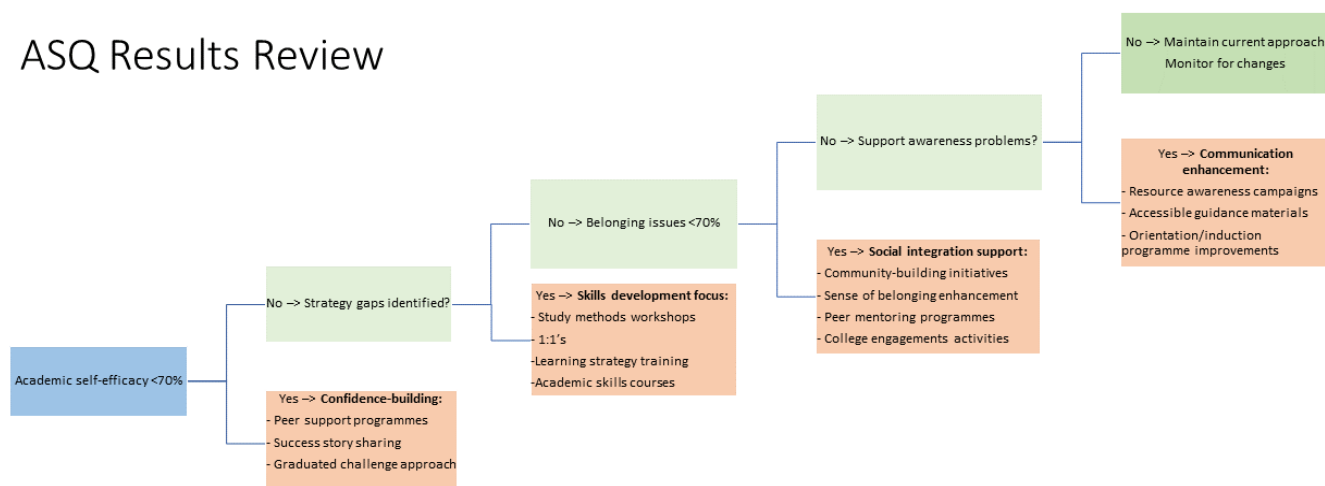
| Sample Size | Analytical Approach | Reporting Focus |
|-------------|--|---|
| n < 30 | Focus on descriptive patterns and trends | Avoid percentage-based claims; emphasise themes |
| n = 30-100 | Reliable for college-level trends | Identify patterns, note response rates |
| n > 100 | Suitable for statistical comparisons | Enable subgroup analysis and correlations |

Actionable Interpretation Framework

| Pattern Identified | Likely Interpretation | Recommended Action | Trinity Example |
|---|--|--|---|
| High Self-Efficacy + Low Strategy Use | Confident but lacks specific academic skills | Skills workshops, study method training | Students confident generally but struggle with exam technique |
| Low Self-Efficacy + High Strategy Awareness | Knows what to do but lacks confidence | Confidence-building, peer support programs | Knows about resources but hesitant to use them |
| High Belonging + Low Support Engagement | Connected but unaware of resources | Improve communication, accessible guides | Feel part of college but don't know about ASDL |
| Low Belonging + High Academic Confidence | Social integration challenges | Community-building, peer mentoring | Academically capable but isolated |

Decision Tree for Action

ASQ Results Review





Reporting Best Practices Checklist

☒ Essential Inclusions

- Response rates and sample demographics
- Combined positive percentages for each dimension
- Key patterns and significant gaps (>15%)
- Specific, actionable recommendations
- Context from college case studies where relevant

☒ Effective Highlighting

- Visual indicators ( / ) for quick interpretation
- Comparison with sector benchmarks where available
- Integration with qualitative insights (MSC stories)
- Clear connection between findings and recommendations

☒ Common Pitfalls to Avoid

- Over-interpreting small differences (<10%)
- Making causal claims from correlation data
- Ignoring high neutral response patterns
- Presenting results without actionable context

Resource Links and Support

For Statistical Analysis Support: Contact Student Data Insights, Education Policy Support

For ASQ Implementation Guidance: [TASO ASQ Resource Hub](#)

For Visual Tools: Consider PowerBI, Tableau, or Excel for creating the recommended chart types

For Case Study Examples: Review [Trinity College](#), [St Peter's College](#) and [Somerville College Skills Hub](#) evaluation reports.

This guide builds on successful implementations at St Peter's College (Academic Writing Support), Trinity College (ASDL Evaluation), and Somerville College (Skills Hub Assessment). Two of these case studies demonstrate (Trinity and Somerville) effective integration of ASQ data with qualitative insights through Most Significant Change (MSC) methodology. The St Peter's College writing support case study solely used this MSC approach.