Investigation types

Mana Maths

Te reo Māori terms

rangahau
investigation
Open in Te Aka

whakatairite
comparison
Open in Te Aka

hononga
relationship
Open in Te Aka

raupapa
sequence/series
Open in Te Aka

Investigation types — Foundation

1. Match each investigation type to its description:

2. **Summary**: data about one group

3. **Comparison**: compares two groups

4. **Relationship**: looks for connections

5. **Time-series**: tracks over time

6. Which type investigates “hours of gaming per week by Year 9 students”?

7. Which type compares “maths scores of boys vs girls”?

8. Which type looks at “height vs arm span”?

9. Which type tracks “monthly rainfall for a year”?

10. Circle the summary investigation:

11. A) Temperature each day

12. B) Favourite colours survey

13. C) Test scores by gender

14. D) Height vs weight

15. Circle the comparison investigation:

16. A) Daily temperatures

17. B) Sports preferences

18. C) Boys’ vs girls’ results

19. D) Age vs shoe size

Investigation types — Proficient

1. Identify the investigation type: “Average height of Year 9 students”

2. Identify: “Comparing test scores before and after a study program”

3. Identify: “Relationship between study hours and test marks”

4. Identify: “Monthly sales figures for a shop”

5. Give an example of a summary investigation.

6. Give an example of a comparison investigation.

7. Give an example of a relationship investigation.

8. Give an example of a time-series investigation.

9. Which graph is best for a summary investigation?

10. Which graph is best for a comparison investigation?

11. Which graph is best for a relationship investigation?

12. Which graph is best for a time-series investigation?

Investigation types — Excellence

1. Design a summary investigation question about school life.

2. Design a comparison investigation question about sports.

3. Design a relationship investigation question about health.

4. Design a time-series investigation question about weather.

5. Explain when you would use each investigation type.

6. Critique: “Is height vs weight a comparison investigation?”

7. Which variables would you measure for each investigation type?

8. How does the investigation type affect data collection?

9. Create a statistical question for each investigation type.

10. Match graphs to investigation types with justification.

11. Plan data collection for each investigation type.

12. Evaluate which investigation type is most appropriate for given scenarios.