

W3. Data Science Process

Choose **one real-life problem**. Then explain how the **Data Science Process** could help people understand the problem and make a better decision.

Choose ONE topic:

☐ PM2.5 air pollution near school

☐ Student screen time

☐ Rainy season in Thailand

☐ Electricity use at home or school

☐ Traffic near school

☐ Other: _____

☐ School canteen food sales

1. Apply the Data Science Process

Complete the table.

Data Science Step	Your Answer
1. Ask a Question What question do you want to answer?	
2. Collect Data What data would you collect?	
3. Check and Prepare Data What problems might the data have?	
4. Explore Patterns What pattern would you look for?	
5. Explain the Meaning What might the pattern mean?	
6. Present the Results How would you show your results?	☐ Table ☐ Graph ☐ Dashboard ☐ Presentation ☐ Infographic ☐ Short report ☐ Other: _____
7. Make a Decision What action could people take?	

2. Why is it better to use data instead of guessing? Answer in 2–3 sentences.