

Year 9 – Data Science

Key Word	Definition
Data Science	Extracting meaning from large data sets in order to provide insights to support decision-making
Data Visualisation	A visual representation that communicates relationships among the data
Infographic	A collection of visualisations or graphic used to clearly show information using images
Correlation	The relationship between two or more variables
Outlier	A piece of data that doesn't fit with a trend.
Trend	A general direction in which something is developing or changing
Data Cleansing	Detecting and correcting, or removing, corrupt or inaccurate data

The investigative cycle

This is a framework for us to follow when asking and answering real-world problems using data.

Problem

Pose a question that you think the data will help you to answer.

Plan

Where will we get the data from, how will we collect it?

Data

Gather Data and see whether it need cleansing.

Analysis

Visualise the data

Spot any patterns, trends, correlations, or outliers

Write down your observations of what the data is showing you.

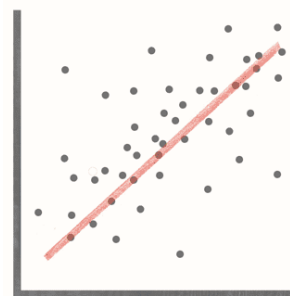
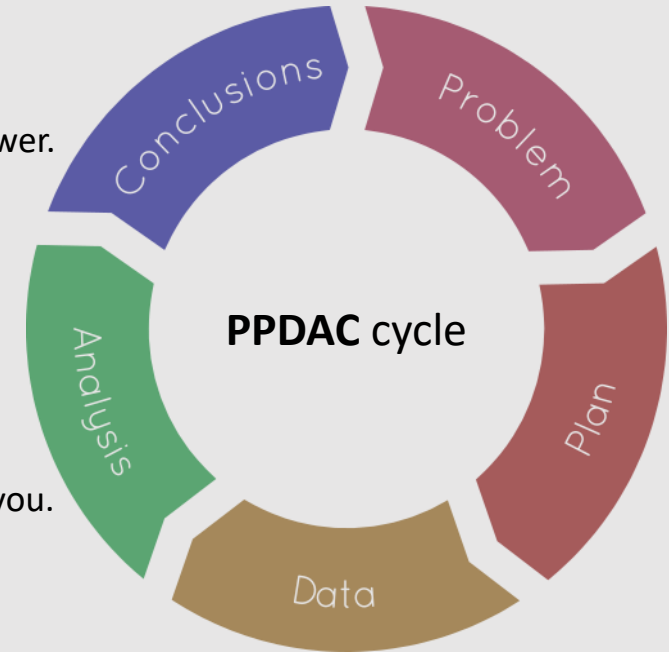
Conclusions

What's the answer to your question?

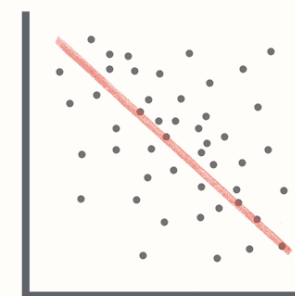
How does the data help prove the answer?

Is the answer reliable?

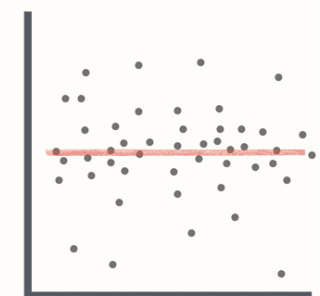
What can we do with the results?



Positive Correlation



Negative Correlation



No Correlation