

**Flexible  
schedule**

# **Student workshops (Years 4 to 6)** **Using Data to Develop our World!** **(Statistics in the Data Age)**



***Enthuse – Engage – Educate***

**Delivered within the investigation (inquiry) framework!**

**The why, where & how of Data & Statistics.**

## **Interactive online sessions (F2F option in Newcastle, NSW) :**

- Emphasis is on authentic learning, conceptual understanding & application!
- Content age-adjusted per curriculum
- 1, 2, & 3-session options: 1-hour each – modifiable to fit within school period
- \$12 (multi-session) / \$15 (single session) incl GST per student per session^^
- Session content is modifiable by request
- EOI / Enquiries – contact: [info@ssapostercomp.info](mailto:info@ssapostercomp.info)

### **Session 1:**

- The Statistical Investigation Process / Experiments
- Statistics, Systems thinking and Scientific Methods in practice – inspiring, accessible, real examples
- Problem-solving cycle & processes
- Developing student-led investigations
- Types of studies – Experiment, Observational, Survey
- Overview of key aspects to consider – aim, method, sampling, variation, visualising, interpreting, reporting

### **Session 2:**

- What to measure: Turning a question into one you may answer – hypotheses and variables
- Data sources & quality
- Types of variables
- Visual displays – pitfalls and best practice
- Comparing groups
- Designing an investigation – key aspects
- Displaying data, interpreting and reporting

### **Session 3:**

**Facilitating student-led investigations**

**Discussions with each group – exploring and developing their ideas**

**AND/OR if time permits (or in place of group discussions)**

**Introduction to free software / data set construction**

**^^ min. 20 students to deliver uniquely to your class/school group – bookings per school/class (we can join your students with others to form min. audience numbers if needed)**



**About the presenter - Dr Peter Howley**

***Professor of Statistics & Systems thinking -- Award Winning Educator***

***STEM Professional -- Statistical Consultant***

***ACARA Curriculum Officer -- Director - School Maths Competition***

***National STA STEM Ambassador***

***Statistical Education Section Chair - Statistical Society of Australia***

***Creator - National Schools Poster Comp***

**See also <https://ssss.org.au/about-the-presenters/>**