



Belconnen High School

COURSE OUTLINE Semester 2, 2026

Course Title: **7 Mathematics PEP**

Faculty: **Mathematics**

Faculty Head: Abhinay Chand

Description of Course

This semester, students develop their skills in geometry, measurement, statistics, and probability. They explore angle relationships, calculate areas and volumes of common shapes, and investigate properties of circles and polygons. In statistics, they collect and analyse data, interpret graphs, and justify their choice of summary statistics, identifying possible outliers. In probability, they predict outcomes, run simulations, and compare expected and observed results. Throughout the semester, students apply reasoning and problem-solving strategies to deepen their understanding.

Learning Outcomes

- Adopts text structures to organise, develop and link ideas when writing and creating
- Applies knowledge of angle relationships and the sum of angles in a triangle to solve problems, giving reasons
- Uses formulas for the areas of triangles and parallelograms and the volumes of rectangular and triangular prisms to solve problems
- Describes the relationships between the radius, diameter and circumference of a circle
- Plans and conducts statistical investigations involving discrete and continuous numerical data, using appropriate displays
- Interprets data in terms of the shape of distribution and summary statistics, identifying possible outliers
- Decides which measure of central tendency is most suitable and explains their reasoning
- Lists sample spaces for single step experiments, assigns probabilities to outcomes and predicts relative frequencies for related events
- Conducts repeated single-step chance experiments and runs simulations using digital tools, giving reasons for differences between predicted and observed results

Materials Required

Students will have access to a Google Classroom where class tasks and assessment items will be displayed, therefore a device is required. The assessment dates for this subject will appear on the students' Google calendar. Students can refer to the BHS Study Skills Guide and the BHS website for assistance with assessment tasks. The Assessment and Reporting Policy is available on the school website.

Items Required

Chromebook or suitable device, a notebook, pencil case and a calculator.

Homework Required

Students will be expected to complete a variety of tasks outside of class time. This may include, teacher-set homework, research for tasks, revision for tests, review of class work and more.

Assessment Schedule

	Due Date	% Weighting
Measurement Assignment	13/08/2026	
Angles Test	14/09/2026	
Statistics Assignment	09/11/2026	
Probability Test	30/10/2026	
Classwork	04/12/2026	