



# CANBERRA HIGH SCHOOL - Technology Learning overview for Term 1

## Subject: 8 STEM

During Term 1, students will learn to discover and develop skills in design, construction and project management. This term students will use the design cycle to investigate, plan, construct, communicate and evaluate their projects. Students will complete a series of small group projects focussing on introducing these key concepts. Students will then create a working helicopter that will be able to fly incorporating technologies such as soldering and laser cutting into the project.

Work and communication will occur in class and within your child's Google Classroom page.

| <b>Week</b> | <b>Topic</b>                  | <b>Content/Activity/Tasks</b>  |
|-------------|-------------------------------|--|
| 1-2         | Paper Bridges                 | <b>Introduction to the design process with emphasis on success criteria, learning from failure, justifying design choices, and working as a team</b>   |
| 3-4         | Boat Building                 | <b>Justifying the selection of material and design choices while working within a budget to complete a challenge</b>   |
| 5-9         | Creating a working helicopter | <b>Creating a functioning helicopter and incorporating a range of technologies, processes and problem solving strategies. Students will be challenged to design, construct and project manage this entire project.</b> |
| 10          | Rapid design tasks            | <b>A series of tasks designed to design and make a solution to a problem, contained within a lesson.</b>   |