Murwillumbah Public School

STEM Teacher Enrichment Academy North Coast Primary 2018

Wind Powered Cars for Years 3 and 4

Summary

Our Stage 2 STEM project, involved students and staff from Stage 2 along with 12 Year 2 students from a composite 2/3 class. Stage 2 designed the STEM project around our Science topic Smooth Moves, from the Primary Connections unit. Inspired by our initial Academy experience, it involved the design and production of wind powered cars. A hands-on parental STEM experience was provided for parents to fully understand their child's school STEM experiences. The objective was to address a fictitious issue with a local car sales business. Students were to design and create a model car meeting specific criteria.

Science and technology outcomes	ST2-9PWST, ST2-14BE, ST2-7MW-T, ST2-1WS-S, ST2-4WS, ST2-5WT, ST2-7PW, ST2-2DP-T, ST2-3DP-T, ST2-11DI-T, ST2-1VA, ST2- 2VA, ST2-3VA
Mathematics outcomes	MA2-1WM, MA2-2WM, MA2-3WM, MA2-18SP, MA2-9MG, MA2-10MG, MA2-11MG, MA2-12MG, MA2-14MG, MA2-15MG
English outcomes	EN2-2A, EN2-6B, EN2-7B,EN2-9B, EN2-12E
CAPA outcomes	VAS2.2, VAS2.3, VAS2.4

Statement of impact

The Wind Powered Cars project introduced students to collaborative, project based learning. The project successfully encouraged community engagement with colleagues, parents and students through information and practical sessions, presentations and showcasing. Implementing a teacher led STEM project initially, enabled the process, purpose and the outcomes of STEM to be clearly understood. Ultimately, identifying the value of student directed transdisciplinary STEM projects. Murwillumbah Public School is focusing on improving pedagogy through innovative, future focused teaching and learning practices integrating STEM with 21st Century Fluencies & ICT through an integrated curriculum.

For more information

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