An Engineering and Technology Project

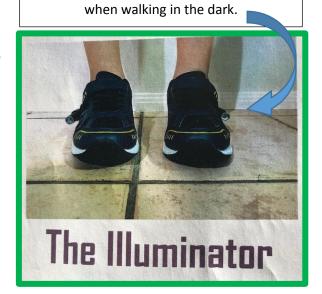
The Task: To create a device or product to demonstrate a scientific principle, solve a problem or offer a different approach to a problem.

What to do:

- Design/make a prototype.
- ♣ Ensure its dimensions are no larger than 76cm in depth, 122cm in width and 1m in height.

The entry:

- Must satisfy one of the following:
 - ✓ Demonstrate a scientific principle
 - ✓ Solve a problem
 - Offer a different approach to a problem
 - Must be accompanied by a <u>scientific notebook</u> telling the audience about the idea and the problem that prompted the design and construction phase.



Shoes with their own lights to see

Many students are aware of the **ENGINEERING DESIGN PROCESS** from STEM lessons.

- Identify the problem
- Brainstorm- What ideas do you have? What's the best solution?
- Design it- How can I plan and draw these ideas?
- Create it- Get to work!
- Test it- What works well? What doesn't?
- Collect data about how well it does its job.
- Improve it- What changes do you need to make?

Hint: Take lots of photos during the process to share in your journal



These projects are eligible for entry into the BHP Billiton Science & Engineering student awards through the state QLD Science competition.