

Song Bird Superhero by Karen Tyrrell

Name _____

Song Bird STEM Science

SPACE ... Hands on STEM Science activities.

- **Build a simple rocket.** How did it launch?
- **Build a simple paper aeroplane.** How does it stay off the ground? How can you make it go faster? ... Higher?...Go further?

<https://au.pinterest.com/vivifystem/space-stem-activities/>

SUPER POWERS ... Hands on STEM Science activities.

- How can SUPER powers be explained by STEM science?
- How does Song Bird fly? How does she lift up off the ground? How does she move?
- How is singing produced by your vocal chords? How is singing explained by science?
- How do you sing louder? higher? Hold a note for longer?
- How could singing shatter windows?
- How did Leonardo da Vinci build his flying machines? How do they work?

STEM ACTIVITIES

1. **Problem solving:** Creative play
eg What can you build with a straw, an elastic band and a paddle pop stick
2. **Inventions...** Science Fair
3. **Paper aeroplanes** Races: best design
4. **Parachute Race**
5. **Force vs Speed** flight acceleration
6. **Space**
7. **History of Flight**

Links: STEM Science & Superpowers

10 Inventions that gave us Superpowers:

<http://scienceonthego.griffith.edu.au/superpowers/>

Science of Super Powers

<http://www.stemfinity.com/The-Science-Of-Super-Powers-Camp>

Science of Superpowers VIDEO <https://www.youtube.com/watch?v=JMhew8yRjvA>

Superpowers on Wiki

http://powerlisting.wikia.com/wiki/Superpower_Wiki

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Song Bird Mighty Girl STEM Science



Cynthia Lam,
a 17-year-old from
Melbourne, Australia,
invented the "H₂PRO"
device which uses
sunlight to purify water
while generating
electricity



A great way to encourage girls' interest in **STEM** (science, technology, engineering, and math) fields is by sharing stories starring girls and women who love science and technology!

Seeing female faces as scientists, whether in the lab or out in the field, is a powerful message to girls that these subjects are open to all. And, while introducing them to real-life women in STEM through [biographies](#) is important, fictional stories showing science-loving girls and women are another excellent way to entice girls with the unlimited possibilities before them.

If you're looking for books for children and teens about real-life female scientists, you can find dozens of titles in our [Science Biographies](#) section.

And, for toys and science kits to further support her interests, check out the recommendations in our blog posts: [Wrapped Up In Science: Top 40 Science Toys for Mighty Girls](#) and [Building Her Dreams: Building and Engineering Toys for Mighty Girls](#).