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**EPISODE 1**  
26th June 2024

**KEY LEARNING**

Students will learn how nuclear power plants work, and explore the advantages of disadvantages of nuclear power.

**CURRICULUM**

[**Physics – Unit 1 (v8.4)**](https://www.australiancurriculum.edu.au/Search/?q=ACSPH012)

[**Physics – Unit 1 (v8.4)**](https://www.australiancurriculum.edu.au/Search/?q=ACSPH013)

[**Physics – Unit 1 (v8.4)**](https://www.australiancurriculum.edu.au/Search/?q=ACSPH013)

[**Science – Year 9 (v9.0)**](https://v9.australiancurriculum.edu.au/search?AC=q%3DAC9S9U05%26pageOffset%3D0)

[**History – Year 10 (v9.0)**](https://v9.australiancurriculum.edu.au/search?AC=q%3DAC9HH10K20%26pageOffset%3D0)

Teacher Resource

**Nuclear Power**

# Focus Questions

Discuss the BTN High story as a class and record the main points of discussion. Students will then respond to the following:

1. What is nuclear power? Explain in a paragraph.
2. What are the advantages of nuclear power?
3. What are the disadvantages?
4. How would you feel if you found out there were plans to build a nuclear power plant in your town or city?
5. What do you think would be the repercussions, if any, in the community?

# Activities

* Research nuclear power, then create an interactive diagram or build a model showing how a nuclear power plant operates.
* Design and create a 3D model that explains what nuclear fission is.
* ‘Nuclear power is the future’. Write an essay on whether you agree or disagree with this statement, highlighting the advantages and disadvantages of nuclear energy.