

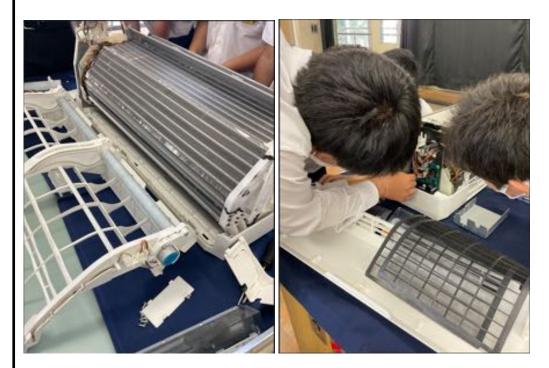
Grade / Age: 13-15 Topic: Disassembling the air conditioner and understanding how it works Subject area: Engineering Keywords: Disassembly, Mechanism, Home appliances Single/ team work: Team Language: Japanese Duration: 1×120 minute period

**Description of the Task:** Disassembling an air conditioner to understanding and summarise how it works

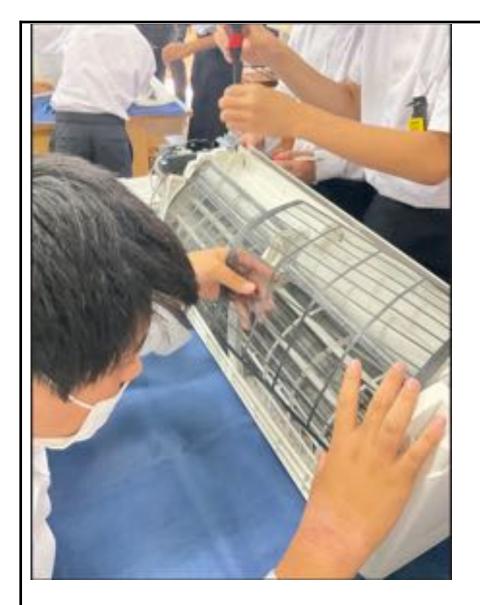
## The Specifics:

Instead of learning from textbooks, students learn how it works by dismantling a real air conditioner with their own hands.

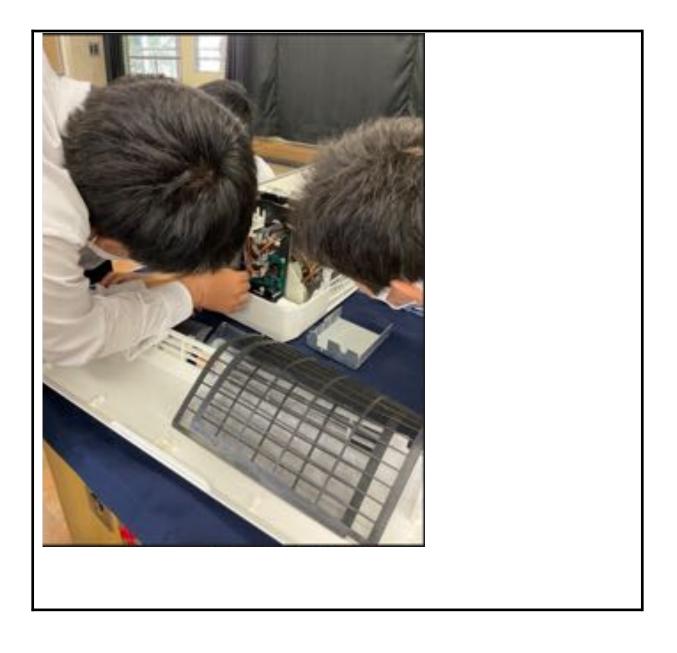
Students disassemble one air conditioner in a group of eight students. They find that what kinds of and how many parts are used there.



Decompose it in cooperation with your colleagues. Students learn how to cooperate with the other students through the task. At the same time, students can learn how to use tools.



While disassembling, students discuss the materials, forms, and engineering of the parts used. After this, restoring to the original form enhances a deeper understanding how the mechanism works.





Connection to other subjects/topics/areas:

Technology, Art, Science