SCIENCE 2021/2022 **HOMEWORK #12**

PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

---

1. **We don't normally *see* sound, we *hear* it, don't we? 😊**
   Invented by German physicist Heinrich Rubens in 1905, "Rubens' Tube" is an impressive physical demonstration that helps *visualize* sound waves.
   Watch it at https://www.youtube.com/watch?v=1ZcOusmB4Ls
   (the direct link is also provided in the Classroom).

2. **Answer the question below:**

   a. **What is Rubens' Tube used for?**

   b. **What do you need to make one (don't try this at home)?**

   c. **What parameter of a sound wave is responsible for its pitch?**

   d. **How is that shown in the demonstration?**

   e. **What parameter of a sound wave is responsible for its volume/loudness?**

   f. **How is that shown in the demonstration?**