



# Grade 8 Science

## Unit 3: Fluids



### Pressure Applications

Today you will present your Pressure Applications assignments. We will quickly review the outline for this presentation. We will then brainstorm a review of presentations skills. Following that we will present. There will be no time to tweak your presentation.



# Pressure Applications

## Outline:

Your presentation is to communicate the following information:

- State what technology you are presenting
- Explain the purpose of the technology (what is it used for)
- Does it use hydraulic or pneumatic principles
- State what the input is (do you apply a force to it, do you turn something, squeeze something, pull a trigger, etc)
- State what the output is (do parts come together, move apart, does something turn, is something elongated, etc)
- Explain how this technology makes something easier/better
- Discuss any environmental, or other, impacts that this technology may have (e.g., if it leaks, it could pollute a stream, it makes it easier to cut down more trees, it does the job faster, so fewer people are needed - less jobs)
- Add any other interesting/important information you feel will fit
- Include pictures/drawings to support your information

# Presentation Skills

Can I please have one student come to the front to record, in dot-jot format, our ideas about the skills of a good presenter?

- Looks at audience
- Knows material (does not need to read)
- Loud voice
- clear voice
- good expression
- explains images / diagrams
- Uses facial expression / body language
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- Does not present to the SmartBoard

Please recall - The audience also has a role to play during a presentation!

# Pressure Applications

It is now time to present. Do I have any volunteers?

You may use any remaining time to work on your end of unit review. Please recall that we will be taking up the answers on \_\_\_\_\_.



Name \_\_\_\_\_ Class \_\_\_\_\_

**FLUIDS END OF UNIT REVIEW**

Complete all of the following items. Check each item upon completion.

**100**

1. Define the difference between pressure and force. (4pts)  
2. Define the difference between gauge and absolute pressure. (4pts)  
3. Define the difference between static and dynamic pressure. (4pts)

Answer each of the questions in 30 seconds or less per question. Do not discuss your answers with anyone. Be prepared to discuss your answers with the instructor.

1. What is the difference between static and dynamic pressure? (4pts)
2. What is the difference between gauge and absolute pressure? (4pts)
3. What is the difference between static and dynamic pressure? (4pts)
4. What is the difference between static and dynamic pressure? (4pts)
5. What is the difference between static and dynamic pressure? (4pts)
6. What is the difference between static and dynamic pressure? (4pts)
7. What is the difference between static and dynamic pressure? (4pts)
8. What is the difference between static and dynamic pressure? (4pts)
9. What is the difference between static and dynamic pressure? (4pts)
10. What is the difference between static and dynamic pressure? (4pts)
11. What is the difference between static and dynamic pressure? (4pts)
12. What is the difference between static and dynamic pressure? (4pts)
13. What is the difference between static and dynamic pressure? (4pts)
14. What is the difference between static and dynamic pressure? (4pts)
15. What is the difference between static and dynamic pressure? (4pts)
16. What is the difference between static and dynamic pressure? (4pts)
17. What is the difference between static and dynamic pressure? (4pts)

The student will be asked to present the answers to all of the questions on this review. If you are unable to answer a question, the instructor will provide the answer for you.

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## Attachments

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3-20 End of Unit Review.pdf