Assignment Summary

In this project, you will use reference materials and Internet sites to do research on types of stimuli and the sensory organs that receive these stimuli. You will also research what happens to the information the body receives from stimuli.

Using various reference materials, you should be able to answer these questions:

1. What is a stimulus?
2. Why does the body respond to stimuli?
3. What are some different types of stimuli?
4. What are sensory organs and what type of stimuli do these receptors respond to?
5. How does the information from the stimuli get communicated to the brain?
6. What happens to the information about the stimuli when it reaches the brain?

You will then share what you have learned by preparing a multimedia presentation. Your multimedia presentation should include a title slide, a number of content slides that include specific information about stimuli and sensory receptors, and a slide that lists the sources you used in your research.

# Assignment Instructions

**Step 1: Gather materials and necessary information.**

1. You will collect information about stimuli and sensory organs, including:
* A definition of a stimulus
* An explanation as to why the body responds to stimuli
* A list of the different types of stimuli and examples
* A description of what sensory organs are and what type of stimuli the organs receive
* An explanation of how the information from stimuli is communicated to the brain
* A description of the two things that can happen when the brain processes the information from stimuli
1. Be sure to keep a list of your references so you can cite them properly later.
2. Ask your teacher where you should save your presentation as you work on it. Your teacher may also have specific guidelines about the file name you should use.

**Step 2: Create your title slide.**

1. Begin by creating the first slide of your presentation: the title slide. On this slide, include a relevant title for your presentation in large font, an appropriate image that relates to the subject matter, your name, your teacher’s name, and the due date of the presentation.
2. Remember to save your work as you go.

**Step 3: Define *stimulus*.**

1. Create a slide titled **Stimulus**.
2. On the slide, be sure to give a definition of a *stimulus*.
3. Include the difference between *stimulus* and *stimuli*.
4. Include an image that relates to the concept being discussed on the slide.
5. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
6. Remember to save your work as you go.

**Step 4: Explain why the body responds to stimuli.**

1. Create a slide titled **Reason(s) the Body Responds to Stimuli.**
2. On the slide, give an explanation as to why the body responds to stimuli.
3. Include real-world examples of how the body responds to stimuli.
4. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
5. Remember to save your work as you go.

**Step 5: List different types of stimuli and give examples of each.**

1. Create a slide titled **Types and Examples of Stimuli.**
2. On the slide, list the different types of stimuli.
3. Include real-world examples of the different types of stimuli.
4. Include images that relate to the concept being discussed on the slide.
5. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
6. Remember to save your work as you go.

**Step 6: Describe the role of sensory organs and identify the types of stimuli each organ receives.**

1. Create a slide titled **Sensory Organs and Stimuli**.
2. On the slide, describe what sensory organs do.
3. Include a bulleted list of the sensory organs of the human body.
4. Identify the types of stimuli the sensory organs receive.
5. Include images that relate to the concepts being discussed on the slide.
6. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
7. Remember to save your work as you go.

**Step 7: Explain how the information from stimuli is communicated to the brain.**

1. Create a slide titled **Information Communicated from Stimuli to Brain**
2. On the slide, explain how the information from the stimuli is communicated to the brain.
3. Be sure to include sensory organs and the structures of the nervous system involved in your explanation.
4. Include an image that relates to the concept being discussed on the slide.
5. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
6. Remember to save your work as you go.

**Step 8: Describe the two things that can happen when the brain processes information from stimuli.**

1. Create a slide titled **Responses to Stimuli.**
2. On the slide, explain how the information from stimuli can become a memory or result in a behavior.
3. Include an example of a scenario where information from a stimulus becomes a memory.
4. Include an example of a scenario where information from a stimulus results in a behavior.
5. Include images that relate to the concepts being discussed on the slide.
6. Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
7. Remember to save your work as you go.

**Step 9: Cite your sources.**

1. Create a slide titled **Works Cited**.
2. On this slide, create a list of the resources you used to complete your research. A simple list of website titles and addresses (URLs) is acceptable. If you used print sources, list the title, author, publisher, city, and date of publication.

**Step 10: Evaluate your presentation.**

If you can check each criterion below, you are ready to submit your presentation.

* Does your presentation include a title slide with a relevant title in large font, an image that relates to the subject matter, your name, your teacher’s name, and the due date of the presentation?
* Does your presentation include a definition of *stimulus*?
	+ Does your slide include the difference between *stimulus* and *stimuli*?
* Does your presentation include a list of the different types of stimuli and examples of each?
* Does your presentation include an explanation of why the body responds to stimuli?
	+ Does your slide include examples of how the body responds to stimuli in real-life situations?
* Does your presentation include a description of the role of sensory organs and the types of stimuli the organs receive?
* Does your presentation include an explanation of how the information from stimuli is communicated to the brain?
	+ Does your explanation include the sensory organs and the structures of the nervous system involved in this process?
	+ Does your explanation include how the information flows from the source of the stimulus to the brain?
* Does your presentation include a description of the two things that can happen when the brain processes the information from stimuli?
	+ Does your description include a scenario in which information from a stimulus becomes a memory?
	+ Does your description include ascenario in which information from a stimulus results in a behavior?

**Step 11: Revise and submit your presentation.**

1. If you were unable to check off all the requirements on the checklist, revise your presentation and save it before submitting.
2. When you have completed your presentation, return to the virtual classroom and use the “Browse for file” option to locate and submit your assignment. Congratulations! You have created a multimedia presentation.
3. Ask your teacher for further instructions about giving your presentation to an audience of your peers.

# Resources

***http://www.bbc.co.uk/schools/gcsebitesize/science/add\_ocr\_pre\_2011/brain\_mind/environmentrev1.shtml***

[**http://www.bbc.co.uk/schools/gcsebitesize/science/aqa\_pre\_2011/human/thenervoussystemrev1.shtml**](http://www.bbc.co.uk/schools/gcsebitesize/science/aqa_pre_2011/human/thenervoussystemrev1.shtml)

[**https://faculty.washington.edu/chudler/pain.html**](https://faculty.washington.edu/chudler/pain.html)

[**http://www.sciencekids.co.nz/sciencefacts/humanbody/senses.html**](http://www.sciencekids.co.nz/sciencefacts/humanbody/senses.html)

[**http://kidsresearchexpress-5.blogspot.com/2008/09/sense-organs.html**](http://kidsresearchexpress-5.blogspot.com/2008/09/sense-organs.html)

**http://www.ducksters.com/science/nervous\_system.php**

[**http://www.kidsbiology.com/human\_biology/nervous-system.php**](http://www.kidsbiology.com/human_biology/nervous-system.php)

[**http://www.kidsbiology.com/human\_biology/nervous-system1.php**](http://www.kidsbiology.com/human_biology/nervous-system1.php)

[**http://www.kidsbiology.com/human\_biology/nervous-system5.php**](http://www.kidsbiology.com/human_biology/nervous-system5.php)

[**http://www.kidsbiology.com/human\_biology/nervous-system6.php**](http://www.kidsbiology.com/human_biology/nervous-system6.php)

[**http://www.kidsbiology.com/human\_biology/nervous-system7.php**](http://www.kidsbiology.com/human_biology/nervous-system7.php)

[**http://www.kidsbiology.com/human\_biology/nervous-system8.php**](http://www.kidsbiology.com/human_biology/nervous-system8.php)

***http://www.kidsbiology.com/human\_biology/nervous-system9.php***

[**http://idahoptv.org/sciencetrek/topics/nervous\_system/facts.cfm**](http://idahoptv.org/sciencetrek/topics/nervous_system/facts.cfm)

***http://kidshealth.org/teen/your\_body/body\_basics/brain\_nervous\_system.html#***