# Assignment Summary

In this assignment, you will create a PowerPoint presentation to be shown at a conference of visitors from another planet. Your main goal is to help them understand what gravity is like on Earth.

Your presentation should have seven slides: a title slide, a slide that explains gravity, a slide explaining the importance of gravity on Earth, a slide identifying the factors affecting the gravitational force between objects, a slide showing how the masses of objects affect the gravitational force between them, a summary slide, and a works cited slide.

# Assignment Instructions

**Step 1: Make sure you have this document available for guidance as you create your presentation.**

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

1. Begin by creating the title slide. On this slide, include a catchy title to grab the attention of your audience, and give a brief description of what you are going to discuss.
2. Remember to save your work in a place and with a file name that will be easy for you to remember.

**Step 3: Explain what gravity is.**

1. Create a slide titled **Gravity**.
2. Include the following information on the slide:
   * Definition of gravity
   * Type of force
3. Insert an interesting image to help the audience visualize your topic.
4. Place text in the notes section below the slide explaining the information presented on it. This text will act as the script for your presentation.
5. Include information in the notes section about the image, such as its title and the URL on which you found it.
6. Remember to save your work.

**Step 4: Explain the importance of gravity on Earth.**

1. Create a slide titled **Importance of Gravity on Earth**.
2. Give three examples that show the importance of gravity to humans.
3. Insert an interesting image to help the audience visualize your topic.
4. Place text in the notes section below the slide explaining the information presented on it. This text will act as the script for your presentation.
5. Include information in the notes section about the image, such as its title and the URL on which you found it.
6. Remember to save your work.

**Step 5:** Identify the factors affecting the gravitational force between objects**.**

1. Create a slide titled **Factors Affecting the Gravitational Force between Objects**.
2. Identify the two factors that affect the strength of the gravitational force between objects. Make sure you include a definition or description of the factors.
3. Insert an interesting image to help the audience visualize your topic.
4. Place text in the notes section below the slide explaining the information presented on it. This text will act as the script for your presentation.
5. Include information in the notes section about the image, such as its title and the URL on which you found it.
6. Remember to save your work.

**Step 6:** Show how the masses of the objects affect the gravitational force between them**.**

1. Create a slide titled **How the Masses of Objects Affect the Gravitational Force between Them**.
2. Include this table on your slide:

|  |  |  |
| --- | --- | --- |
| **Mass of Object 1**  **(kg)** | **Mass of Object 2 (kg)** | **Gravitational Force**  **(N)** |
| 1 x 1020 | 1 x 1020 | 1 x 1020 G |
| 3 x 1020 | 1 x 1020 | 3 x 1020 G |
| 2 x 1020 | 2 x 1020 | 4 x 1020 G |
| 3 x 1020 | 4 x 1020 | 12 x 1020 G |

1. Use the table to explain how the masses of Objects 1 and 2 relate to the gravitational force between them. Be sure to:
   * Describe the scenario.
   * Explain the table headings to introduce the data in the table.
   * Use the data to show a trend.
   * Summarize the information from the table in a sentence, showing the relationship between the masses of objects and the gravitational force between the objects.
2. Place text in the notes section below the slide explaining the information presented on it. This text will act as the script for your presentation.
3. Remember to save your work.

**Step 7:** Summarize ideas.

1. Create a slide titled **Summary.**
2. Include a bulleted list highlighting the important ideas you shared in your presentation.
   * Definition and description of gravity
   * Importance of gravity
   * Factors affecting gravitational forces between objects
   * Relationship between the masses of objects and the gravitational force between them
   * Relationship between the distance between objects and the gravitational force between them

**Step 8: 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. For resources, a simple list of website titles and addresses (URLs) is acceptable. If you used print sources, list the title, author, publisher, city, and date.

**Step 9: Evaluate your presentation using this checklist.**

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

* Does your presentation include a title slide with a catchy title about gravity?
* Does your presentation include a slide with information defining and describing gravity and the type of force gravity is?
* Does your presentation include a slide that gives reasons why gravity is important on Earth?
* Does your presentation include a slide with information identifying and describing the factors affecting the gravitational force between objects?
* Does your presentation include a slide on which data from a table is used to explain the relationship between the masses of objects and the gravitational force between them?
* Does your presentation include a summary slide highlighting important information from your presentation?
* Does your presentation include text in the notes section of each slide that explains the information presented on the slide?
* Does your presentation include an image on each of the slides created in Steps 3, 4, and 5?
* Does your presentation include source information (in the notes section of the appropriate slides) for the images you used?
* Does your presentation include a works cited slide, including citations for all the sources you used?
* Does your presentation follow grammar, spelling, and punctuation rules and conventions?

**Step 10: Revise, edit, and submit your presentation.**

1. If there were things on the list that you were not able to check off, revise and/or edit your presentation to address the unchecked items.
2. Save your presentation after you edit and revise it.
3. When you are ready to submit your presentation, return to the virtual classroom and use the “Browse for file” option to locate and submit your assignment.
4. Ask your teacher for further instructions about presenting your presentation to your peers.