

**Calculating your weight and age on other planets**      **NAME** \_\_\_\_\_

Your Weight on Other Worlds Online Activity

<https://www.exploratorium.edu/ronh/weight/>

Your Weight on Earth \_\_\_\_\_

Mercury \_\_\_\_\_

Venus \_\_\_\_\_

Moon \_\_\_\_\_

Mars \_\_\_\_\_

Jupiter \_\_\_\_\_

Saturn \_\_\_\_\_

Uranus \_\_\_\_\_

Neptune \_\_\_\_\_

Pluto \_\_\_\_\_

IO \_\_\_\_\_

Europa \_\_\_\_\_

Ganymede \_\_\_\_\_

Callista \_\_\_\_\_

Sun \_\_\_\_\_

White Dwarf \_\_\_\_\_

A Neutron Star \_\_\_\_\_

**Read the Mass and Weight Summary and answer the following questions:**

1. What is Mass?
2. An object with mass has a quantity called \_\_\_\_\_.
3. Mass is a measure of how much \_\_\_\_\_ an object displays.
4. What is weight?
5. The amount of attraction between objects depends on what two factors?
6. What does it mean to be weightless?
7. What is the formula for calculating the force of gravity?
8. What do each of the letters in the formula represent (F, M, m, r)

Calculating your age on other planets

<https://www.exploratorium.edu/ronh/age/index.html>

Enter your Birthday: Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

Fill in Chart Below

<b>PLANET</b>	<b>AGE DAYS</b>	<b>AGE YEARS</b>	<b>NEXT BIRTHDAY</b>
<b>Mercury</b>			
<b>Venus</b>			
<b>Earth</b>			
<b>Mars</b>			
<b>Jupiter</b>			
<b>Saturn</b>			
<b>Uranus</b>			
<b>Neptune</b>			
<b>Pluto</b>			

Read the years and days of your life follow-up section.

Answer the following questions:

1. What is rotation?
2. What is revolution?
3. Complete the chart below (include units):

<b>PLANET</b>	<b>Rotation Period</b>	<b>Revolution Period</b>
<b>Mercury</b>		
<b>Venus</b>		
<b>Earth</b>		
<b>Mars</b>		
<b>Jupiter</b>		
<b>Saturn</b>		
<b>Uranus</b>		
<b>Neptune</b>		
<b>Pluto</b>		