

How old are you on other planets?

Every year, the Earth completes one orbit of the Sun and every year, you have a birthday! And each day, the Earth rotates on its axis.

But how old would you be in days or years on another planet? Use the data in the Planet Data Sheet and do the maths to find out!



Facts and Figures	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune
Orbital Distance (AU)^a	0.38	0.72	1.0	1.52	5.2	9.54	19.2	30.06
Radius (KM)	2,440	6,052	6,378	3,397	71,492	60,268	25,559	24,746
Year Length (Earth Days)	88	225	365.25	687	4,333	10,759	30,687	60,190
Day Length^b (Earth Days)	176	117	1.0	1.03	0.41	0.43	0.75	0.67

^a 1 AU (or Astronomical Unit) = 149,600,000 km and is the mean distance from the Earth to the Sun.

^b Day lengths are sidereal days (time taken to rotate once) except for Mercury and Venus which are solar days (time from one sunrise to the next).

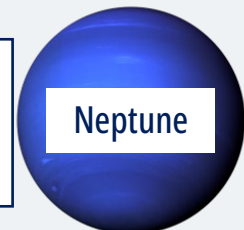
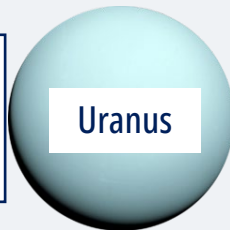
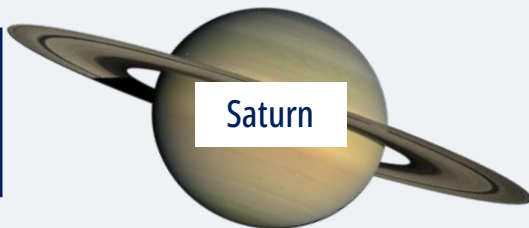
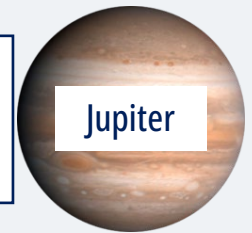
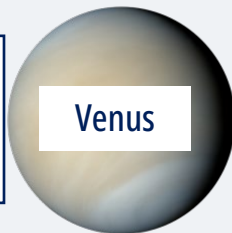
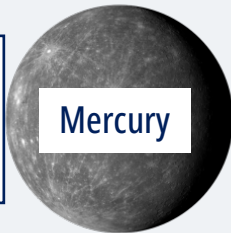
Our [helpful video](#) will guide you through the calculations if you need support. You can check your answers using our ["Space Age" Calculator!](#)

How old are you on other planets?

Task: Calculate your age in **YEARS** on another planet

1. What calculation do you need to do? Write it in this box.

2. Work out your age **in years** on each planet and write it in the correct box



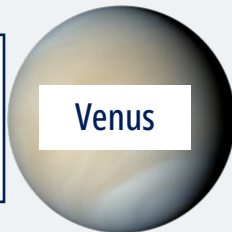
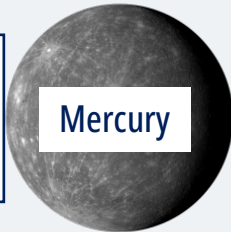
Can you spot a pattern? What is causing it? Answer on the next page!

How old are you on other planets?

Challenge: Calculate your age in **DAYS** on another planet

3. What calculation do you need to do? Write it in this box.

4. Work out your age **in days** on each planet and write it in the correct box



Answer: Your age in years gets smaller, the further from the Sun the planet is. This is because it takes the planet longer to orbit.