

HOME/SCHOOL CONNECTION

Investigation 2: Planetary Systems

A student, who is 10, is curious about how old she would be on other planets in the solar system. She knows that on Earth a year equals 365 days. But other planets have longer or shorter years. How can she figure out how old she would be on these planets?

Planet	Orbit in Earth days
Mercury	88
Venus	225
Mars	687
Jupiter	4,333
Saturn	10,759
Uranus	30,685
Neptune	60,189

1. How many Earth days old is the student?
2. How many Mercury years old is the student?
3. How many Mars years old is the student?
4. On which planets is the student less than a year old?
5. On which planets is the student older than she is on Earth?
6. How old would you be today on each of the planets?
7. How old would each member of your family be today on each of the planets?