

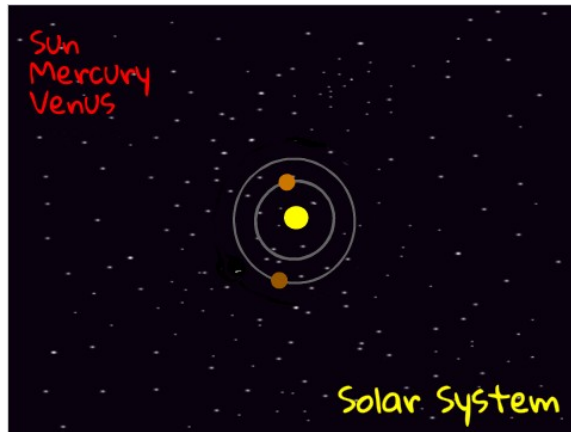
Solar System

Aim: Orbit planets around the Sun (Year 5 Science work sample)

Backdrop Stars

Type **Solar System**

in bottom right corner



```
when green flag clicked
broadcast Sun
wait 2 secs
broadcast Mercury
wait 2 secs
broadcast Venus
wait 2 secs
```

Sprites

Planets



```
when green flag clicked
clear
set size to 50 %
hide
```

```
when I receive Sun
go to x: 0 y: 0
switch costume to Sun
show
glide 1 secs to x: -225 y: 150
stamp
```

```
when I receive Mercury
go to x: -30 y: 0
switch costume to Mercury
glide 1 secs to x: -225 y: 125
stamp
```

```
when I receive Venus
go to x: -50 y: 0
switch costume to Venus
glide 1 secs to x: -225 y: 100
stamp
```

Sun



```
when green flag clicked
go to x: 0 y: 0
hide
```

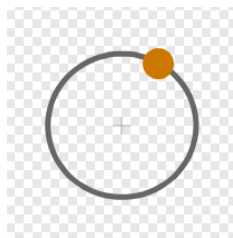
```
when I receive Sun
show
```

Mercury

for this sprite only

Make a Variable

orbit



```
when clicked
  go to x: 0 y: 0
  hide

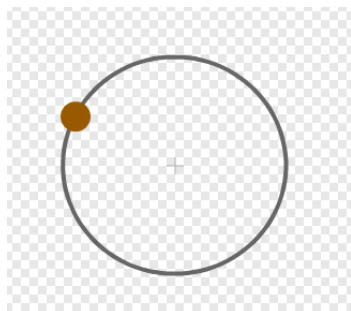
when I receive Mercury
  show
  set orbit to 0
  forever
    point in direction orbit
    change orbit by 1
```

Venus

for this sprite only

Make a Variable

orbit



```
when clicked
  go to x: 0 y: 0
  hide

when I receive Venus
  show
  set orbit to 0
  forever
    point in direction orbit
    change orbit by 1
```

Save and Test

Challenge

Add more Planets (there's an Earth sprite)