

# KS3: SPACE AND BEPICOLOMBO

MATERIAL PROVIDED BY THE SCHOOL OF PHYSICS AND ASTRONOMY FOR MORE INFORMATION VISIT: HTTPS://LE.AC.UK/BEPICOLOMBO







SPACE & BEPICOLOMBO

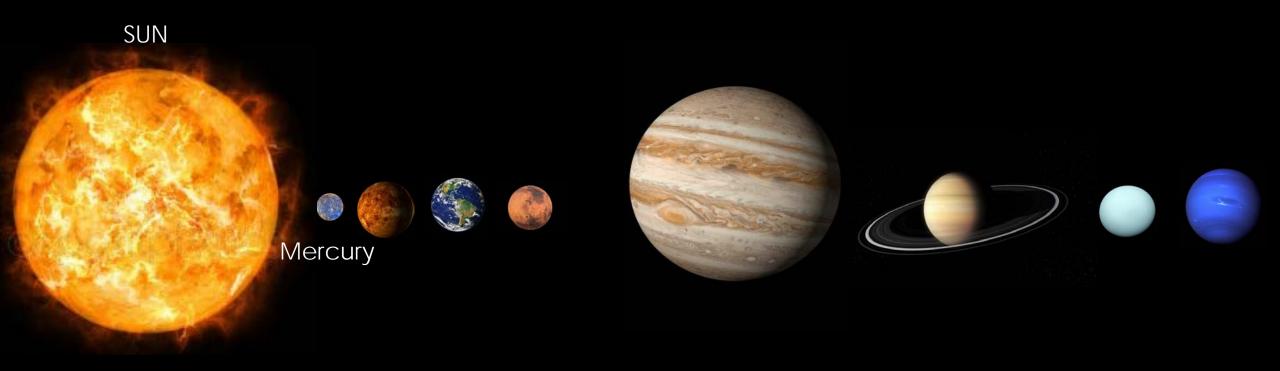
# 

WHY DO WE EXPLORE DIFFERENT PLANETS?

HOW LONG IS AN EARTH YEAR?

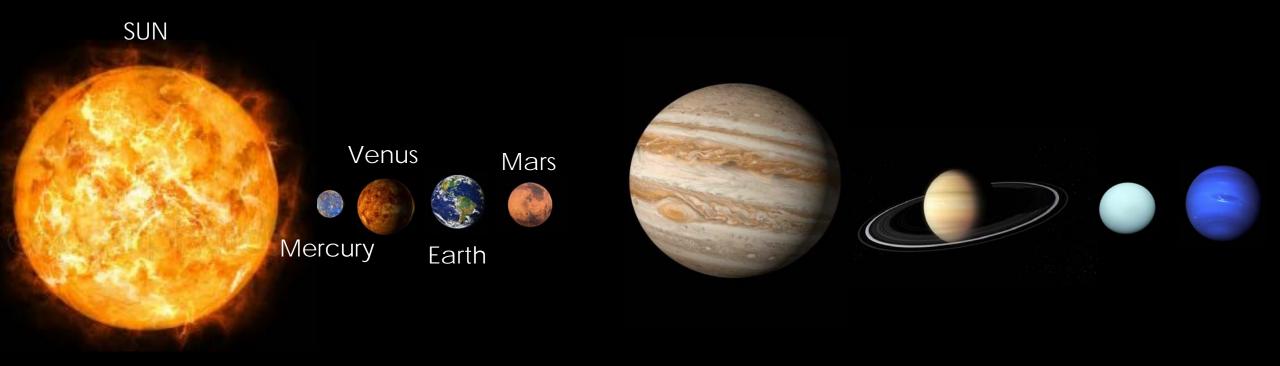


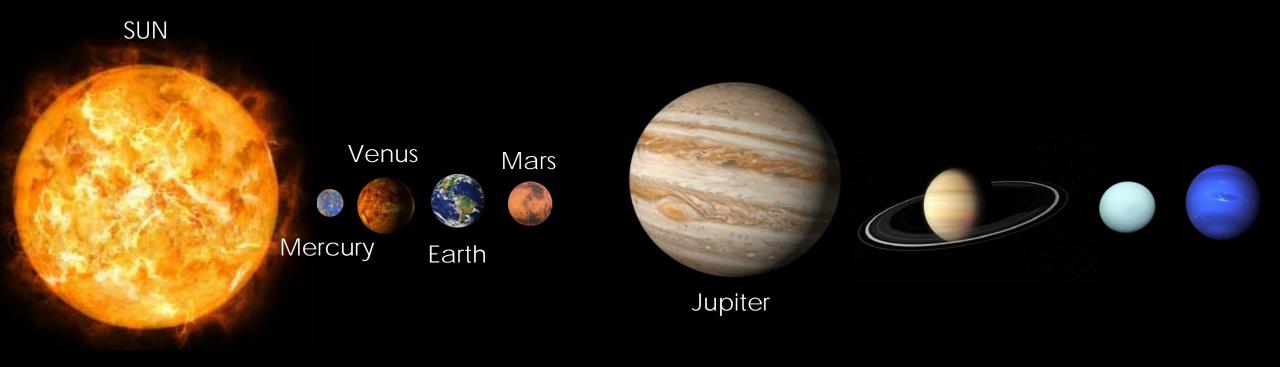


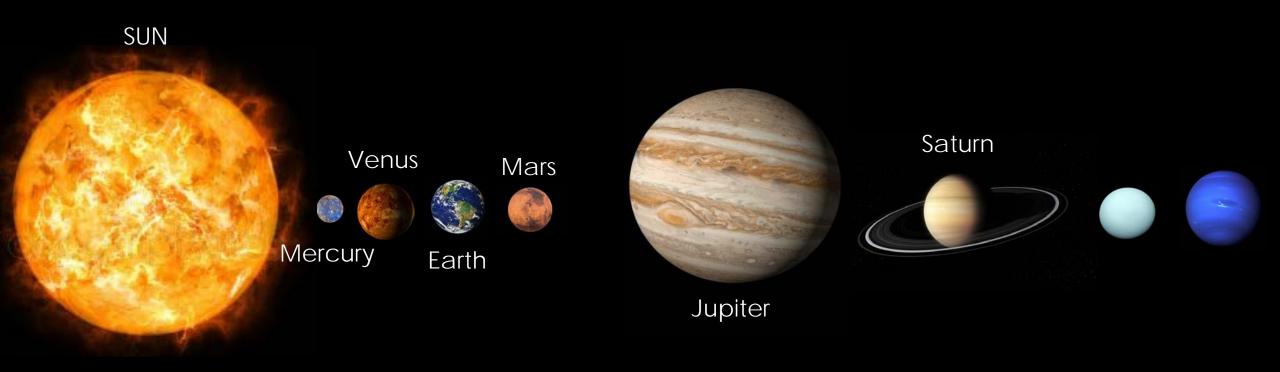


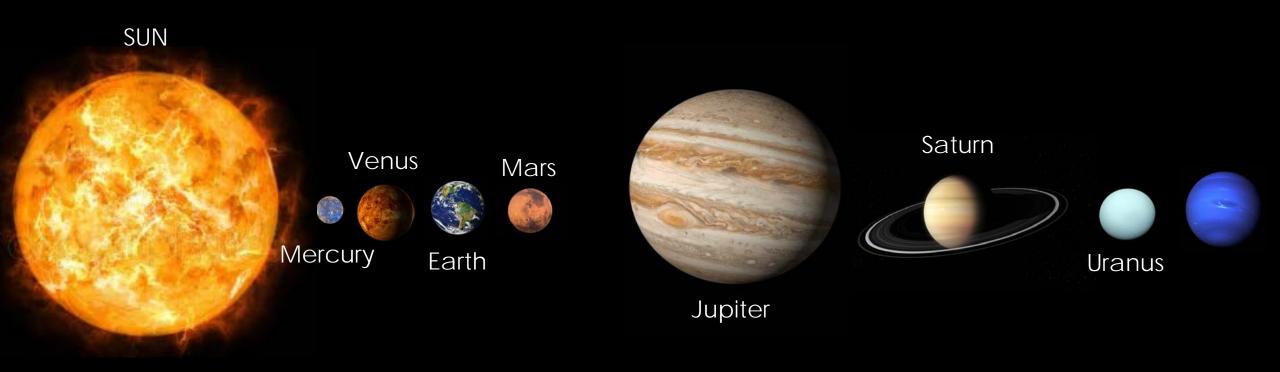


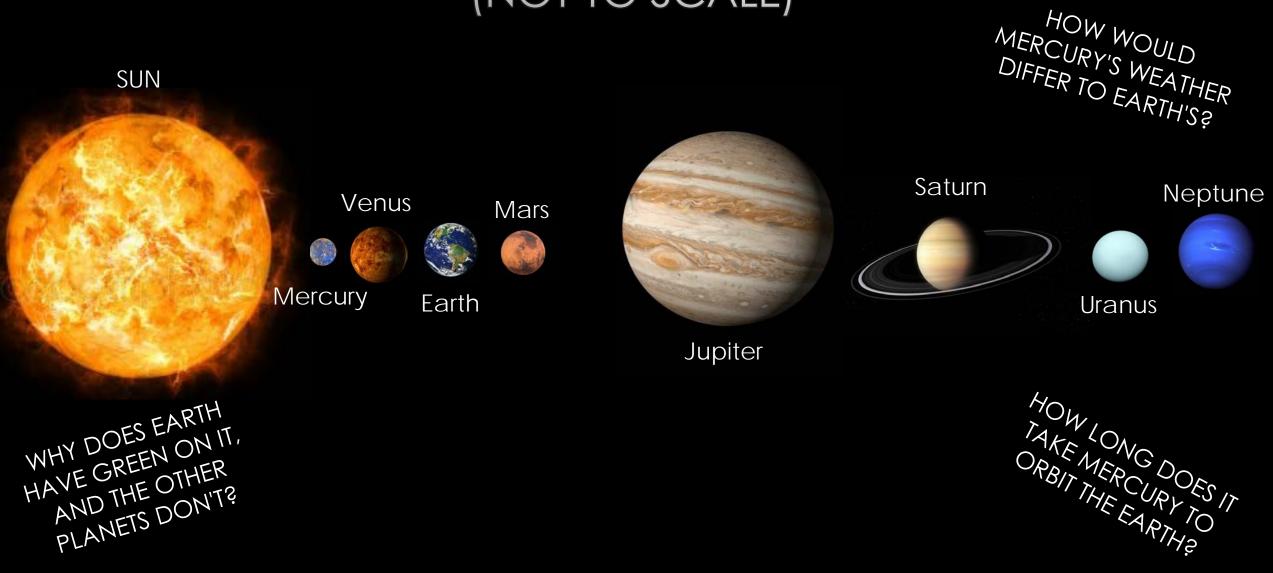




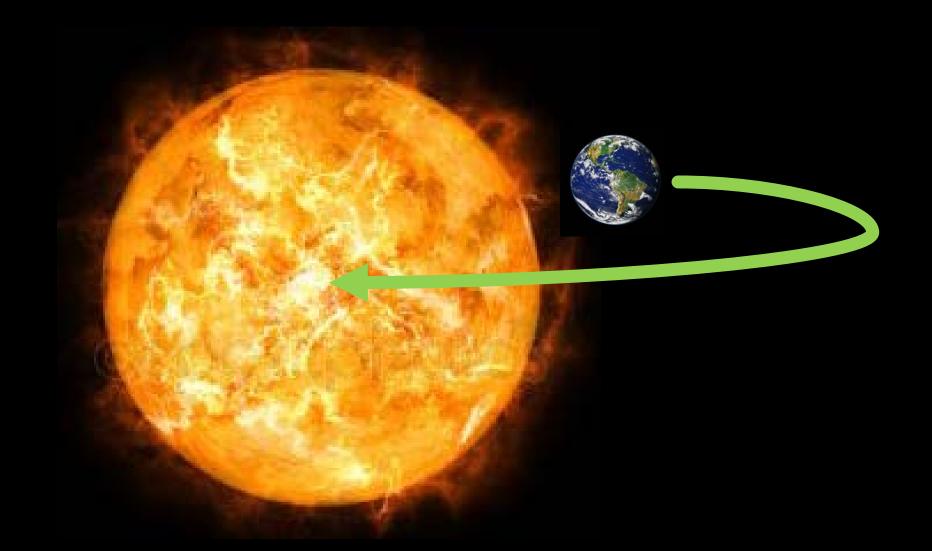




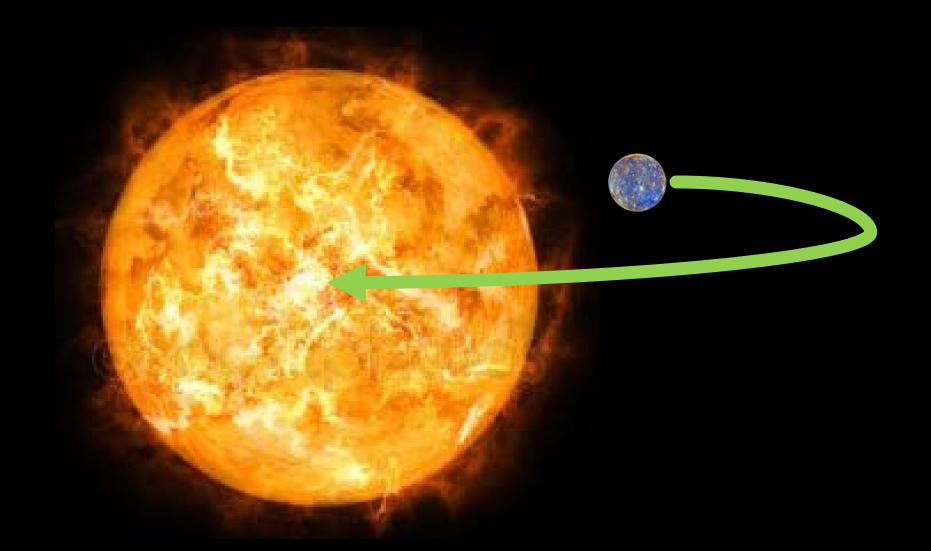




# EARTH TAKES 365 DAYS TO ORBIT THE SUN



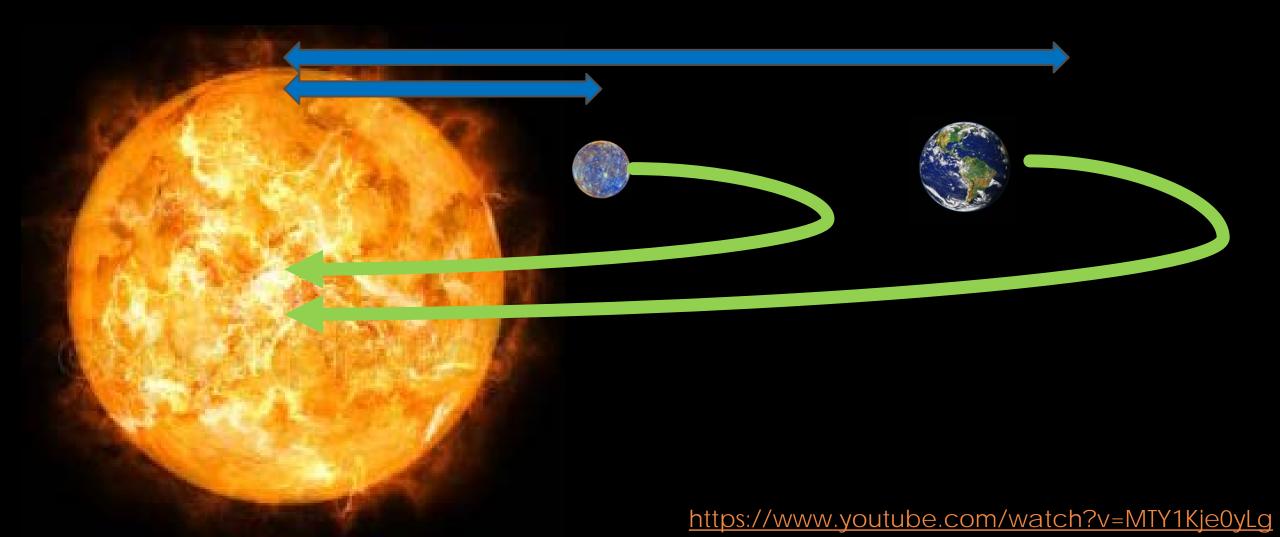
# MERCURY TAKES 88 DAYS TO ORBIT THE SUN



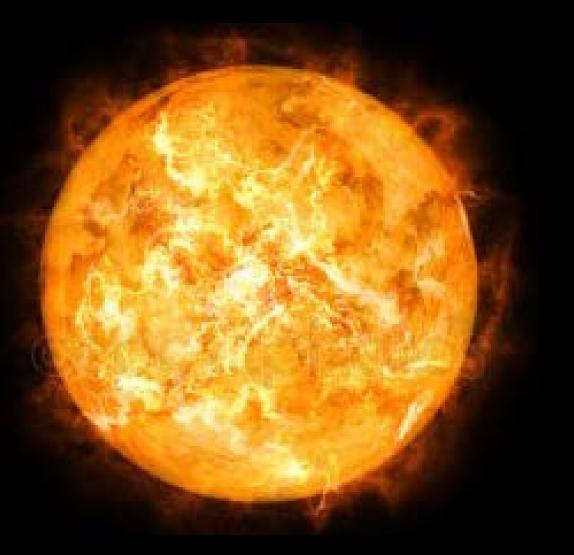
### WHY DON'T WE FALL OFF THE EARTH?

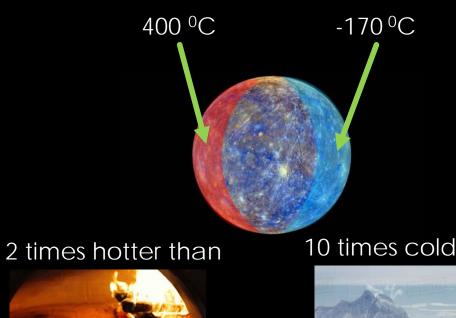
HTTPS://WWW.YOUTUBE.COM/WATCH?V=BLPTF\_NQIQI

### GRAVITY FROM THE SUN IS STRONGER ON MERCURY



### TEMPERATURE EXTREMES





#### Pizza oven

#### 10 times colder than

andardaadaadaadaadaa



Antarctica

# BEPICOLOMBO MISSION TO MERCURY

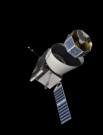


https://www.youtube.com/watch?v=MKEcanjC0eM&



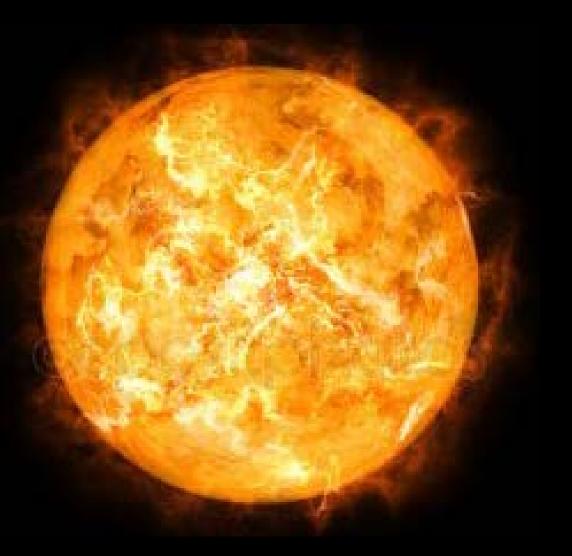
## TEMPERATURE EXTREMES FOR THE MISSION



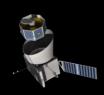




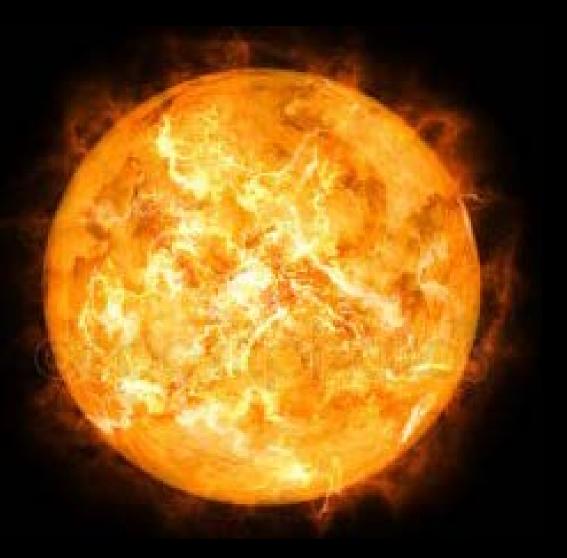
## TEMPERATURE EXTREMES FOR THE MISSION

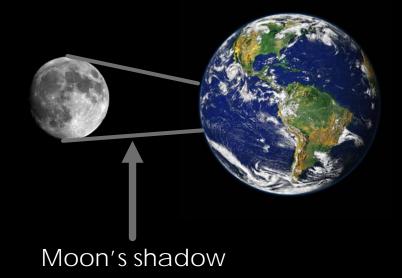




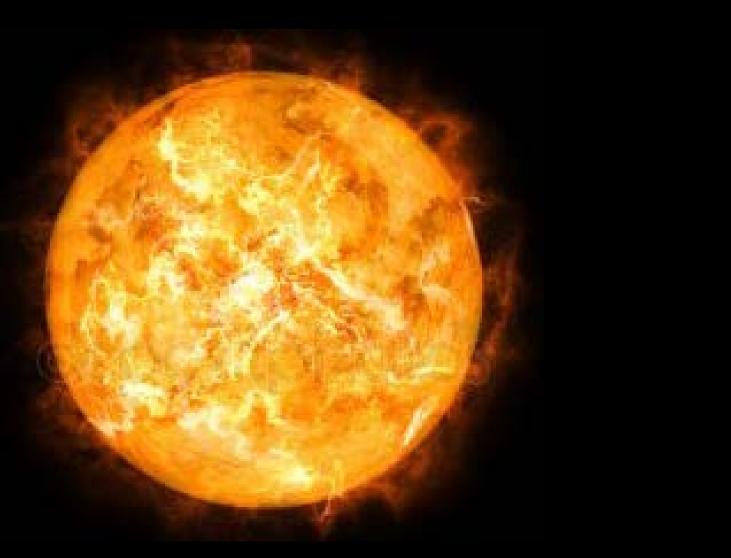


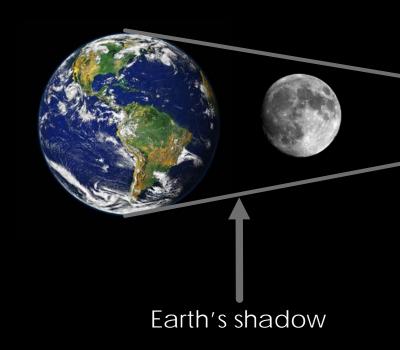


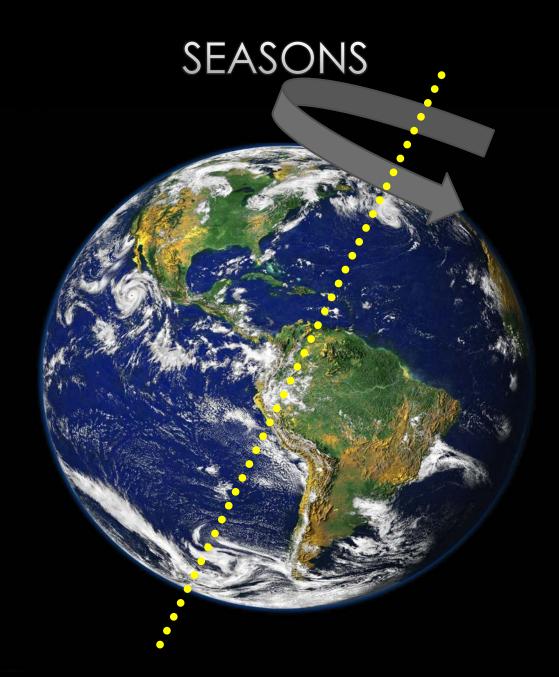












### SEASONS

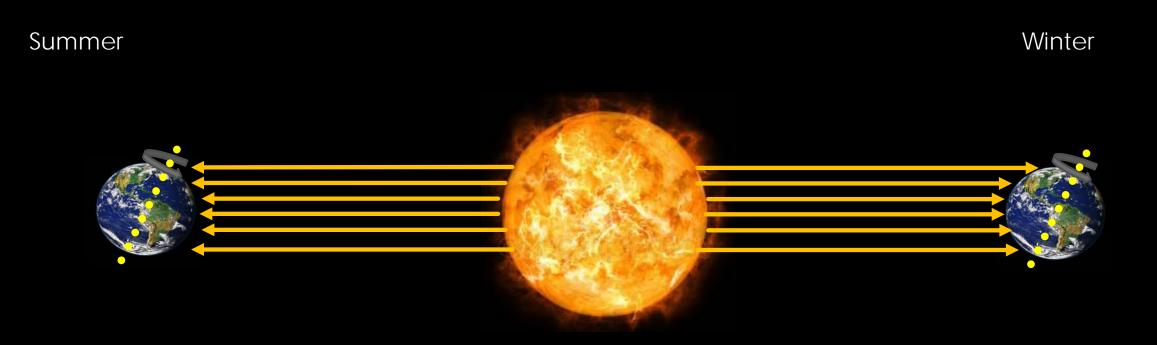
Where will it be hot?

#### Where will it be cold?

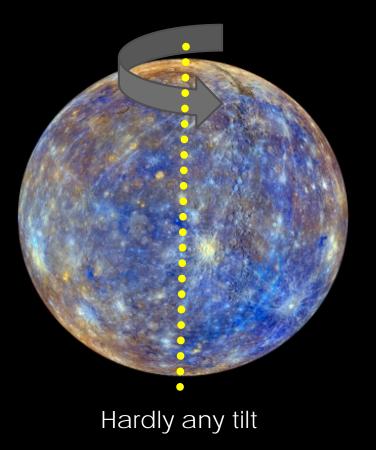


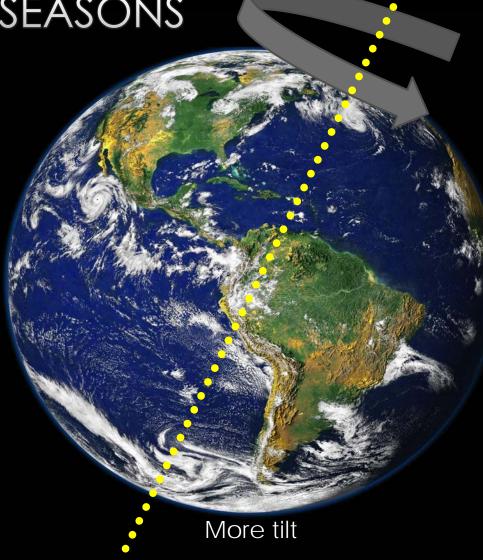
\*Northern hemisphere

# SEASONS\*



### DIFFERENCE IN SEASONS

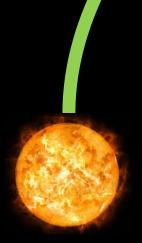




Mercury does have seasonal effects due to its non-circular orbit around the Sun

### HOURS OF THE DAY

Summer times





5:00 am

### 12:00 pm HOURS OF THE DAY

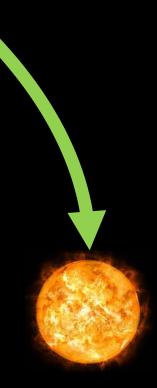
Summer times



# HOURS OF THE DAY

Summer times

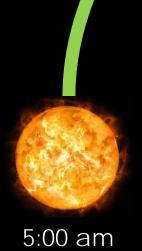




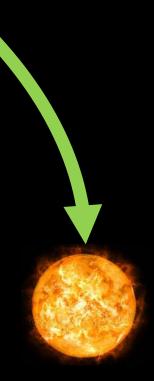
9:15 pm

### 12:00 pm HOURS OF THE DAY

Summer times







9:15 pm

### 11:50 pm HOURS OF THE DAY

Winter times







3:50 pm