



# Exploring Earth and the Solar System: Educational Outreach Through NASA's Space Place, Climate Kids and SciJinks Websites

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JPL Summer 2012

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# Meet The Team!



Technical Artist: Alex Novati  
Lead Programmer: Austin Fitzpatrick  
Team Lead: Nancy Leon

Intern: Joseph Meneses  
Intern: Fernando Jaime  
Content Writer: Diane Fisher

Outreach Coordinator: Laura Lincoln (Not Pictured)



# Education Through Engagement



Explore the features of Space, the Sun, Earth, our Solar System and the people behind it all!



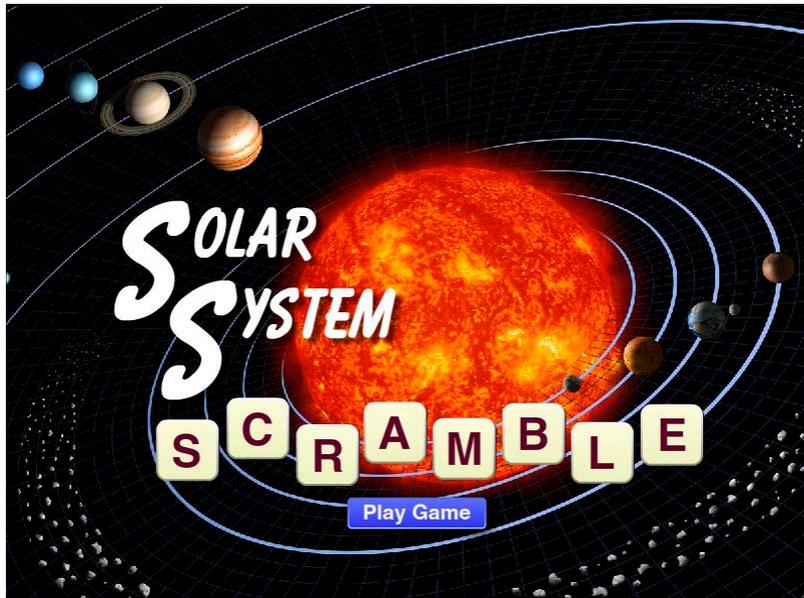
See how changing climate conditions can impact animals, humans, and the environment!



See how tornados, thunder and lightning form! Learn how GOES-R helps us explore weather!



# Project Overview



# Can You Guess the Answers?

1 2 3

The only place besides Earth that people have visited.

M \_ O N

K N N O Y G Q A

clue 2/3 prize: 100 Score: 0 give up next clue

1 2 3

Often called the "morning star" or the "evening star."

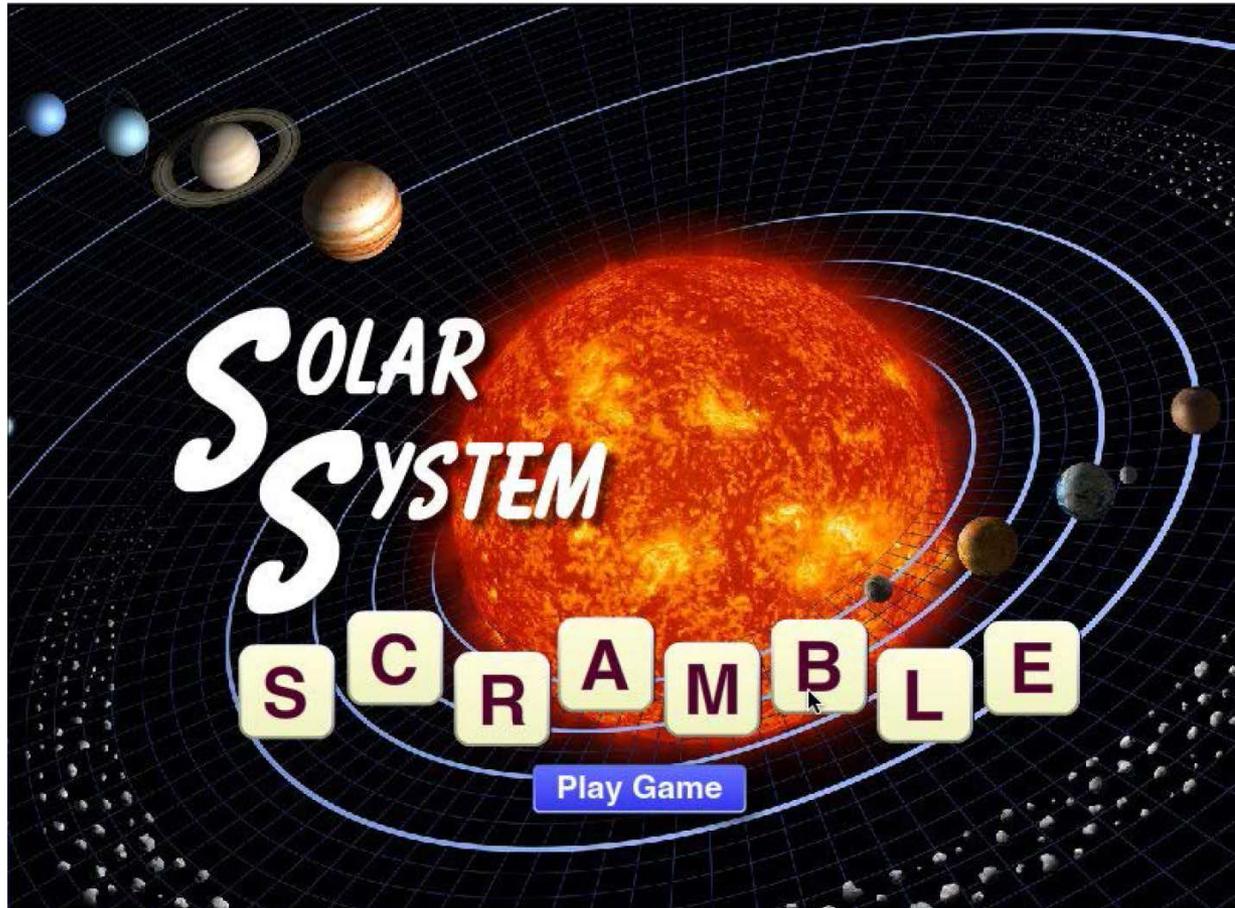
V O I T G

N F U J S E

clue 1/3 prize: 200 Score: 100 give up next clue



# Let's Play Solar System Scramble



1 2 3

Often called the "morning star" or the "evening star."

V E  U S

B N H L M Y C

Photo by Dan Bush

clue 1/3   prize: 200   Score: 450   give up   next clue



# Let's Play Butterfrog Mix-up





# Future Projects: Maze Generation

The screenshot shows the Adobe Flash IDE interface. The main stage displays a 5x5 grid of green squares representing a maze. A red circle with a white 'P' is in the top-left corner. The interface includes a menu bar (Flash, File, Edit, View, Control, Debug, Window, Help), a toolbar, and a Properties panel on the right. The Properties panel shows the document name "MazeGame fla", the player "Flash Player 10", and the script "ActionScript 3.0". The FPS is set to 24.00 and the size is 960 x 640 px. The SWF History panel shows three entries with sizes of 13.8 KB and dates/times. The Output panel at the bottom shows the following text:

```
Timeline    OUTPUT    COMPILER ERRORS    MOTION EDITOR
This cell's walls are located 1,1,1,0
This cell's walls are located 1,1,0,0
This cell's walls are located 0,1,0,0
This cell's walls are located 0,1,1,0,1,1,1.
Something has gone terribly wrong in getDirectionMoved
>>>>>>>>>
0,0,0,1
```

# I Wasn't Joking About the Project Board









[climate.nasa.gov/kids](http://climate.nasa.gov/kids)



**Mars Reconnaissance Orbiter**  
*The Gold Mine*

This orbiter has returned more data than several NASA missions combined. With the largest camera features aboard the orbiter can identify surface features about the size of a dinner table.

It is looking for minerals that formed in water. Minerals that formed in water are signs of life.

Launch: August 12, 2006  
Arrival: March 14, 2007  
Duration: Still Going

**Mars Odyssey**

The Mars Orbiter Mission (MOM) is a Mars orbiter mission launched by the Indian Space Research Organisation (ISRO) on September 24, 2013. It is the first Indian interplanetary mission and the first to reach Mars. The orbiter is designed to study the Martian atmosphere and surface, and to search for signs of water. It is named after the Greek goddess of wisdom and warfare, Athena.

Launch: September 24, 2013  
Arrival: November 15, 2013  
Duration: Still Going

**Mars Exploration Rovers**  
*Hubbly Rover*

Designed for 90 days of exploration, Spirit and Opportunity traveled long distances and were back home at the highest resolution range of the Martian surface.

By Spirit and Opportunity, we have learned a great deal about the environment of Mars' history that may have supported small life forms called microbes.

Launch: January 2004  
Arrival: January 2004  
Duration: Spirit: Expired for 6+ years, Opportunity: Still Working



