## SKY TOUR <br> OF THE UNITED STATES



# Game Set Up, Instructions, and Materials 

Based on the Fifth Grade Next Generation Science Standards for Astronomy


OF





## INSTRUCTIONS TO BUILD THE GAME

Print out and cut the four pieces of the game board (pages 2-5 of this document). Tape them together.


Print out all of the game cards, as attached to the game board. Cut them and create a stack of them that can be placed in the middle of the game board.


Grab a die and some game pieces to use for each player, and you are ready to play!


## GAME INSTRUCTIONS

## You will need:



Game pieces (1 die \& 1 piece/player) The game board, printed The game cards, printed

Roll the die to determine which player will roll first. The player that rolls the highest number will go first, and you can move in a circle to take turns from there.

Put all the game pieces at the "START." Roll the die and move the number of places shown. Another player will pick up a question card for you and read you the question from the card. After you answer, the player who read the card will flip the card upside down to check your answer.

If the player landed on a GREY SQUARE, they will move forward ONE SPACE for answering the question correctly. If the player landed on an ORANGE SQUARE, they will move forward THREE SPACES for answering the question correctly. If the player did not answer the question directly, they will stay where they are.

The first player to reach the "FINISH" wins the game.

## Fifth Grade

The collection of the sun and the eight planets is called our
$\qquad$ －
mәұsKs גеןоs：：גәMsuy
5－ESS1－1

Two planets are closer to the sun than Earth：Mercury and $\qquad$ ．
snuə＾：дəMsu甘 5－ESS1－1

True or false：the Universe contains millions of galaxies， including ours．

True or false：scientists know the exact size of the universe．
 ә૫Ұ SMOия әио ON iəsןеf：：ләMsu甘

5－ESS1－1

Which four planets in our solar system are smaller and rocky？

## s．ew

рие чддеэ＇snuәл＇Клплаәр ：дәмsиу 5－ESS1－1

Which four planets in our solar system are larger and gaseous？
ounłdon pue

5－ESS1－1

The four planets that are larger than Earth in our solar system are $\qquad$ ，
$\qquad$ ， $\qquad$ ，and $\qquad$ －
ountdon pue snueגn＇uanłes＇ләұ！dnf：：ләмsu甘

5－ESS1－1

Our solar system is part of the $\qquad$ galaxy．

## Fifth Grade

Two flashlights that look like the circles below are the same distance away．Which one looks brighter？



5－ESS1－1

True or false：the temperature of a star affects its brightness．
－sле7s ләןо05 иеч7 ләдчя！лq


5－ESS1－1

If two stars are the same distance from Earth，which star will appear brighter？


5－ESS1－1

5－ESS1－1

True or false：if two stars are the same distance from Earth，the same temperature，and the same age，the larger star will appear brighter．

True or false：the brightness of a star is largely determined by its distance from Earth．

әпィұ：дәMSU甘
5－ESS1－1

True or false：the age of a star has an impact on its brightness．


Two stars are the same temperature， and at the same distance from Earth，but one star is much bigger than the other． Which star is brighter？

5－ESS1－1

True or false：stars of the same size can have different temperatures．

## Fifth Grade

When you watch a sunset，is the Sun really moving across the sky？
－uns әч7 wodt
Kеме 马u！uu！ds s！чдлеэ uo 8u！puezs


5－ESS1－2

## What is a constellation？




ұеч7 sıe7s $\ddagger 0$ dnoл8 $\forall$ ：ләMsu甘
5－ESS1－2

How do constellations appear to move in the sky？
－כлоس 07 deədde s．e7s
ZL：」əMSU甘
5－ESS1－2
sәуеи ио！ұедеол s，чдлез ：ләмsu甘
5－ESS1－2

If the Earth were to spin half as fast as it does now，how many hours would be in one day？

## Does the moon rotate？

－पдлез әч7 punode sənן0ләл 7！


# What does the moon orbit？ 

The Earth orbits around the
$\qquad$ －
－uns ：ләмsu甘
5－ESS1－2

The $\qquad$ orbits around the Earth．

Earth rotates around its $\qquad$ ， the invisible line that stretches between the North and South poles．

## Fifth Grade

The force that keeps our bodies on the ground and pulls us towards the center of the Earth is called $\qquad$ ．

Кт！леля：：ләмsu甘
5－ESS1－2

Which season has the greatest number of hours of daylight？

ләшuns ：дәмsu甘
5－ESS1－2

Which season has the least number of hours of daylight？

ләұи！м ：ләмsuษ
5－ESS1－2

## How long does it take the Earth to rotate once on its axis？

s．nnoч 七Z ло ‘Кер әио ：дәмsuұ
5－ESS1－2

How long does it take the Earth to revolve around the sun？

леәК әио ло＇sKep s9е：ләмsu甘
5－ESS1－2

True or false：your shadow is longer at some times of day than it is at others．
－Куs әчұ u！
s！uns әчъ әдәчм ио 8и！̣puәdәр Кер



5－ESS1－2

True or false：your shadow points in a different direction in the morning than it does at night．
－Кys әчъ U！s！uns әчң әләчм uodn łuәpuәdəp s！stu！̣od mopeys anoK


5－ESS1－2

True or false：some constellations， or groups of stars，can be seen all year long，despite Earth＇s rotation．

> -әпдұ :дәмsu甘

True or false：some of the stars that we see in the sky tonight might not be visible to us in a few months due to the Earth＇s rotation．

True or false：we have more hours of daylight in the winter than in the summer．




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## Fifth Grade

What is the difference between weight and mass？
ssew ұеч7 8и！ұәәдне К7！леля
 ә！！чм＇ұכәโqо ие и！ч7！м ләұ7е山 ј0 ұunowe әч7 S！ssew ：ләmsu甘

5－PS2－1

True or false：gravity refers to the amount of attraction between the masses of two objects，

әпл7 ：ләмsuv
5－PS2－1

True or false：you will weigh more on Mars than you will on Earth．
－чдлез uo op no人 uey？sdew uo ssop


5－PS2－1
5－PS2－1

True or false：the force of gravity is stronger on Earth than on the moon because Earth is much bigger．
ənıұ：ләMsu甘
5－PS2－1

True or false：the more mass an object has，the more it weighs， and the greater the force of gravity affecting the object．

## ənı7 ：』әMsu甘

5－PS2－1
True or false：the mass of an object is dependent upon gravity．
 әप7 uodn ¥uәpuәdәр s！ 7 วə！$q \circ$


5－PS2－1

True or false：your mass is less on the moon than it is on Earth．
－7ou s！sseu pue К7ィеля uodn ұuepuedep s！ұप\＆ృอм əэu！s

pou seop sseul dno $\lambda$＇əspey ：лəmsuy

True or false：an object is rotating when it moves around another object．
－8ิu！nןoneג

> True or false：Newtons is the measurement used for the force of gravity．

## Fifth Grade

True or false：gravity is a force that pulls objects towards the center of the Earth．

әпıұ ：גәмsuษ
5－PS2－1

True or false：when two forces act together，the forces applied should be added to determine the total force．

5－PS2－1

True or false：when two forces act against each other，the forces applied should be added to determine the total force．
－pəұวeגłsqns əq

5－PS2－1

True or false：if forces are not equal，and therefore unbalanced，motion will occur．
ənd7：』әMsu甘

True or false：if forces are equal，and therefore balanced， motion will not occur．

If you hit a baseball into the outfield， what force eventually pulls the ball down to the ground？

Кт！леля ：дәмsuн
5－PS2－1

If you kick a soccer ball，it rolls for about 10 feet，and then it stops，what force caused the soccer ball to stop？

5－PS2－1

An upward force exerted by water is called：
A）Magnetism B）Gravity
C）Friction D）Buoyancy
a ：дәмsuy
5－PS2－1

True or false：the word＂orbit＂refers to the path that an object takes as it revolves around another object．

Өnał ：』əMsUヌ
5－PS2－1

True or false：an object is revolving when it moves around another object．

5－PS2－1

