# PATTERNS IN THE SKY

#### ALL

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SOME ACTIONS CAN BE PATTERNS TOO IF THEY'RE PREDICTABLE TO YOU "I DON'T LIKE THIS PATTERN," MOM HAS SAID EACH NIGHT WHEN I WON'T GO TO BED.

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PATTERNS IN THE SKY
THE STARS AND MOON AND SUN
PATTERNS IN THE SKY
THEIR RACE IS NEVER DONE.

REGULAR AS CLOCKWORK CAN'T HELP BUT WONDER WHY PATTERNS IN THE SKY.

TODAY THE SUN WILL RISE AND SET
THE SAME TOMORROW, I WILL BET
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PATTERNS IN THE SKY.

STUDENT #1 Hey, what's wrong?	
STUDENT #2 We don't understand the assignment.	
STUDENT #3 Yeah, we're supposed to find patterns in the sky but every time we look, the sun and moon are in different places.	
STUDENT #1 Where's your notebook?	
STUDENT #2 Uh, notebook?	
STUDENT #1 Yeah! You have to write down what you see and when. Then you can find the pattern.	
STUDENT #3 OHHHHHH.	
STUDENT #1 Taking careful notes is an important part of scientific observation.	
STUDENT #2 I've got that part down, but I can't figure out how the solar system actually works.	
STUDENT #1  Now that's a doozy. I hope you like spinny rides, because we're on one right now!	
SPIN SPIN AROUND	
SUN WHO'S IN THE MIDDLE OF THE SOLAR SYSTEM? ME, THE SUN!	
ALL BUT SUN YOU, THE SUN!	

WHO BRINGS THE LIGHT THAT YOU ARE MISSIN'? ME, THE SUN!

SUN

## **ALL BUT SUN**

YOU, THE SUN!

ALL

SO RAISE YOUR VOICES LOUD, MY FRIENDS FOR ALL THE WARMTH THAT IT EXPENDS YES RAISE YOUR VOICES LOUD, MY FRIENDS AND SPIN SPIN AROUND.

**EARTH** 

WHO ORBITS ALL THE WAY AROUND THE SUN? ME, THE EARTH!

**ALL BUT EARTH** 

YOU, THE EARTH!

**EARTH** 

WHO GIVES A PLACE TO LIVE TO EVERYONE? ME, THE EARTH!

**ALL BUT EARTH** 

YOU, THE EARTH!

ALL

SO RAISE YOUR VOICES LOUD, MY FRIENDS FOR ALL THOSE EARTHLY DIVIDENDS YES RAISE YOUR VOICES LOUD, MY FRIENDS AND SPIN SPIN AROUND.

SUN, EARTH, AND MOON HAVE GRAVITY THAT KEEPS THEM ALL IN PLACE WHIRLIN' IN THE UNIVERSE WITH PATTERNS WE CAN TRACE

MOON

WHO ORBITS ALL THE WAY AROUND THE EARTH? ME, THE MOON!

**ALL BUT MOON** 

YOU, THE MOON!

MOON

WHO'S GOT THE PHASES AND CREATES THE SURF? ME, THE MOON!

## **ALL BUT MOON**

YOU, THE MOON!

## ALL

SO RAISE YOUR VOICES LOUD, MY FRIENDS ITS MOONBEAMS AREN'T JUST PASSING TRENDS YES RAISE YOUR VOICES LOUD, MY FRIENDS AND SPIN SPIN AROUND.

AND SPIN SPIN AROUND.

# STUDENT #4

I don't know about you, but all that spinning around makes me dizzy!

# STUDENT #5

Really?

# STUDENT #4

Well, actually...no. That's weird. If the earth is always spinning, why don't we feel dizzy?

# STUDENT #5

That's because we're spinning right along with it...at almost a thousand miles per hour!

## STUDENT #4

Yikes! I hope we don't get a ticket.

## STUDENT #6

This has all been quite fascinating but what I want to know is why we have different seasons.

# STUDENT #7

Oh, that's easy! It's a matter of taste. Some people like cumin, some like oregano.

## STUDENT #6

I said seasons, not seasonings!

## STUDENT #7

Oh, that's easy too! The earth's tilted just like this!

(Tilts head to the side)

23.5 degrees, to be exact!

# **TILTED**

**ALL** 

WINTER
AND SPRING
AND FALL
AND SUMMERTIME YEAH

WINTER AND SPRING AND FALL AND SUMMERTIME YEAH

TILTED
THE EARTH IS JUST TILTED ON ONE SIDE
TILTED
JUST OFF TO THE SIDE

YOU KNOW THE TILT MAKES THE SEASONS 'CAUSE EVERY POINT IN THE YEAR SOME PLACES GET WAY MORE SUNLIGHT THAN OTHER PARTS OF THE SPHERE

WINTER SHORT DAYS, LONG NIGHTS AND COLDER WEATHER

SUMMER LONG DAYS, SHORT NIGHTS LET'S PLAY TOGETHER

TILTED
THE EARTH IS JUST TILTED ON ONE SIDE
TILTED
JUST OFF TO THE SIDE

YOU KNOW THE TILT MAKES THE SEASONS 'CAUSE EVERY POINT IN THE YEAR SOME PLACES GET WAY MORE SUNLIGHT THAN OTHER PARTS OF THE SPHERE

WINTER AND SPRING AND FALL AND SUMMERTIME YEAH

WINTER AND SPRING AND FALL AND SUMMERTIME YEAH

TILTED!

# STUDENT #8

That was fun but let's straighten out our heads now.

(EVERYONE grabs their heads and moves them upright.)

# STUDENT #9

Ah, much better. Now we can look up at the moon!

**FULL MOON** 

Oh, Yay! That's us!

# **HALF MOON**

Now, which phase do you think suites me best?

STUDENTS

Huh?

# **QUARTER MOON**

We're the different moon's phases. We reflect the light from the sun back to you on earth.

# **NEW MOON**

Our phase all depends on how much of our reflection you can see.

# **FULL MOON**

That's right! I'm a Full Moon and I shine the brightest!

# **HALF MOON**

Just because you shine the brightest, doesn't mean your the best! Hi! I'm Half moon and I guess you could say, "I'm the best of both MOONS"!

# **QUARTER MOON**

I'm Quarter Moon! Please to meet your acquaintance!

## **NEW MOON**

Hey! Don't forget about me!

# **FULL MOON**

Sorry, New Moon but it's easy to forget about you.

# **HALF MOON**

Yeah, there's not much to see.

# **QUARTER MOON**

Don't feel down New Moon, we'll let you have a solo in the next song!

# **NEW MOON**

# **NEW MOON**

NEW MOON THERE'S NOT MUCH TO SEE REAL SOON THERE'S A SLICE OF ME

FULL MOON SHINE BRIGHT AND ROUND REAL SOON, REAL SOON I WILL SHRINK BACK DOWN.

REAL SOON, REAL SOON
I WILL SHRINK BACK DOWN.

ALL

NEW MOON THERE'S NOTHING TO SEE REAL SOON THERE'S A SLIVER OF ME

FULL MOON
I JUST MIGHT BURST
REAL SOON, REAL SOON
I'LL GO IN REVERSE.

REAL SOON, REAL SOON I'LL GO IN REVERSE.

THESE ARE THE SIMPLE LUNAR FACTS I WAX AND WANE AND WANE AND WAX IT TAKES ME ALMOST THIRTY DAYS I GUESS I'M IN A LUNAR PHASE.

NEW MOON THERE'S NOT MUCH TO SEE REAL SOON THERE'S A SLICE OF ME

FULL MOON SHINE BRIGHT AND ROUND REAL SOON, REAL SOON I WILL SHRINK BACK DOWN.

REAL SOON, REAL SOON I WILL SHRINK BACK DOWN.

## STUDENT #10

The moon sure is beautiful, but I love stargazing best of all.

## STUDENT #11

Me too! I like trying to find the constellations.

# STUDENT #12

Look, there's the Social Media Influencer! And the Great Taco!

## STUDENT #13

Those aren't real constellations! You made that up.

# STUDENT #12

Why not? People around the world have always named constellations after their own stories and culture.

# STUDENT #14

That's a good point. I just wish the stars were always out.

## STUDENT #15

Oh, they are! We just can't see them during the day because OUR star, the sun, is so bright.

# **WE'RE STARS**

**ALL** 

WE'RE STARS
AND WE SHINE SO BRIGHT

WE'RE STARS
TWINKLING EVERY NIGHT
BUT DID YOU KNOW WE'RE THERE IN DAYTIME TOO?

WE'RE STARS
OH IT'S SUCH A CRIME

'CAUSE STARS ARE OUT ALL THE TIME BUT THE SUN'S TOO BRIGHT AND OUR LIGHT CAN'T GET THROUGH.

WE'RE NUCLEAR POWERED GIANT MASSES WE'RE LUMINOUS BALLS OF FIERY GASSES

EVERY NIGHT
THINGS ARE RIGHT
BUT IN BETWEEN WE CANNOT BE SEEN!

WE'RE STARS WE DON'T LIKE TO FUSS

BUT THE SUN WELL, HE'S JUST LIKE US A STAR WHO'S JUST MUCH CLOSER THAN WE ARE.

THAT SUN
THINKS HE OWNS THE DAY

'CAUSE WE ARE SO FAR AWAY SO LET HIM SHINE; WE WILL NOT FRET

AT SOME POINT HE WILL HAVE TO SET THEN WE WILL RULE THE NIGHT, YOU BET WE'RE STARS!

STUI Wow! Look at that huge star!	DENT #16	
STUI That's not a star.	DENT #17	
STUI The aliens are coming!	DENT #18	
STUI Maybe it's a really really ginormous glowing	DENT #19 ng pigeon.	
STUI  It's not an alien and it's not a pigeon! Tha	<b>DENT #20</b> t's Venus. It's a planet.	
STUI A planet? How can you tell?	DENT #16	
	<b>DENT #20</b> ey twinkle. Planets are like the moon; they	
STUI How come that planet wasn't there last n	<b>DENT #17</b> ight?	
STUDENT #20 Planets have their own patterns too. They're not always visible from Earth.		
STUI Well, how many planets are there in our s	DENT #18 olar system?	
	<b>DENT #20</b> Jupiter, Saturn, Uranus and NeptuneEight!	
Sounds like quite a crew! Let's sing a sor	DENT #19 ng about each one!	
STUI Yeah, that should only take another two h	DENT #20 lours!	
STUDENT #16 What if we combined them all into one song.		
Great idea!	JDENTS	

# **EIGHT GREAT PLANETS**

# **SOLO**

MERCURY AND VENUS EARTH AND MARS FLYING IN THEIR ORBIT 'ROUND A STAR. JUPITER AND SATURN WHAT A VIEW! URANUS AND NEPTUNE WHAT A CREW.

ALL

MERCURY AND VENUS EARTH AND MARS FLYING IN THEIR ORBIT 'ROUND A STAR. JUPITER AND SATURN WHAT A VIEW! URANUS AND NEPTUNE WHAT A CREW.

SOLAR SOLAR SOLAR SYSTEM EIGHT GREAT PLANETS I CAN'T RESIST 'EM.

THERE ARE METEORS, METEORS COMETS AND ASTEROIDS AS WELL...

BUT I LOVE THOSE PLANETS MOST CAN'T YOU TELL? CAN'T YOU TELL?

MERCURY AND VENUS EARTH AND MARS FLYING IN THEIR ORBIT 'ROUND A STAR. JUPITER AND SATURN WHAT A VIEW! URANUS AND NEPTUNE WHAT A CREW.

SOLAR SOLAR SOLAR SYSTEM EIGHT GREAT PLANETS I CAN'T RESIST 'EM.

THERE ARE METEORS, METEORS COMETS AND ASTEROIDS AS WELL...

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URANUS AND NEPTUNE WHAT A CREW.

URANUS AND NEPTUNE WHAT A CREW.

URANUS AND NEPTUNE WHAT A CREW.

## STUDENT #21

Hey, I thought there used to be a ninth planet.

STUDENT #22

Yeah, what about Pluto?

# STUDENT #23

SHHH! Don't let Pluto hear you say that. It's a very sore subject. It's better if you don't bring it up. Trust me.

## **PLUTO**

Hey! I heard that! Please sing a song about me. Pleeeeeease! I'm small. I'm cold. I'm four billion miles from the sun. I'm LONELY!

## STUDENT #23

Pluto. You know you're not supposed to be here.

## **PLUTO**

It's because I'm not an official planet anymore, isn't it?

## STUDENT #23

Well...yes.

## **PLUTO**

I KNEW it! You'll be sorry. I'm famous! Walt Disney named a dog after me, you know!

## STUDENT #23

Sorry about that. Pluto's had a tough time adjusting. Okeedokee, everybody. Our show is almost over but it looks like we have time for one last song! Hit it!

# PATTERNS IN THE SKY REPRISE

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