

Grade: 1st Month:

Content Area: Science

Sub Content/Unit: Animals

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
Tell about an animal's adaptations, diet, habitat, and communication	<ul> <li>Animal research report: students will research and report their animal</li> </ul>	<ul> <li>Ebooks</li> <li>Post It notes (for note taking)</li> <li>Organization page</li> <li>Rough draft page</li> <li>Final draft page</li> </ul>	Written     report/oral     presentation	



Grade: 1st Month:

Content Area: Science

Sub Content/Unit: Light and Shadows

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
<ul> <li>Understand the concept of translucent, transparent, and opaque</li> <li>Understand how light travels</li> <li>Understand how light affects sight</li> <li>Be able to send a message using flashing light</li> </ul>	Lesson 1  • KWL - light  • Light video:  • Light   The Dr. Binocs Show    • Vocab, intro using a glass, a plastic bag, and a book:  ○ Transparent  ○ Translucent  ○ opaque  Lesson 2  • Review what we know  • Turn off lights, cover windows, and explore the dark with flashlights  • Write/draw a picture of observations on posters as you explore!	<ul> <li>Class set of flashlights</li> <li>Glass cup</li> <li>Filmy plastic bag</li> <li>Book</li> <li>Class set of handheld mirrors</li> <li>Inspire Science workbook, student edition (print selected pages)</li> </ul>	Observation, engagement	

<ul> <li>Lesson 3</li> <li>Bring in an item in a paper bag</li> <li>Turn off lights, cover windows - walk around so students can "see" the item in the dark</li> <li>Share - what did they see?</li> <li>Show in the light - were they right?</li> <li>Journal pgs 12-13</li> </ul>		
Lesson 4  ■ Which colors are easiest to see in a dim room? Dark or light?  □ Make a prediction/hypothesis  □ Do the experiment (show papers with dark colors and light colors)  □ Review results  □ Journal pg 20		
Lesson 5  ■ Look at shadows - light source held high or low (pencil, flashlight)  ■ Journal pg 32-33		
Lesson 6  ■ Light and Mirrors - Inquiry Activity pg 40-41		

Lesson 7  • Light and Mirrors help us - sending messages • Journal pgs 46-49		
<ul> <li>Lesson 8</li> <li>How is your name spelled in Morse Code?</li> <li>Paper first, then try with flashlight</li> </ul>		
Final Lesson  ■ End with Art Project - Stained glass windows - tissue paper, contact paper, black strips of construction paper.		



Grade: 1st Month:

Content Area: Science

Sub Content/Unit: Plants

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
<ul> <li>Understand what plants need to grow</li> <li>Know the structures of a plant (roots, stem, leaves, flowers)</li> <li>Know how plants grow/the life cycle of a plant (seed, germination, sprout, seedling, plant, flower/fruit)</li> <li>Understand the function of structures</li> <li>Understand how plants make their own food</li> <li>Know what parts of a plant we eat</li> </ul>	Day 1: What do plants need to grow?  Display pictures (from Plants Unit 2 pgs. 36-41) Students create flip books  Day 2: Experiment Revisit what plants need to grow Explain experiment and fill out predictions If time, set out the plants, labeled, in the appropriate places	<ul> <li>Various TPT resources</li> <li>Ziplock bags</li> <li>Celery</li> <li>Mason jars</li> <li>Food coloring</li> <li>Bean seeds</li> <li>6 bean plants</li> </ul>	Observation and participation	

Day 3: Plant Stru roots, stem, leave flower  Provide si mini book	es, tudent s "Parts	
of a plant' and color structure • Cut out/as plant structure craft	each	
Day 4: How do play grow?  Show min with picture explain segermination sprout, seger plant, flow students book with	ni book res, eed, on, eedling, ver/fruit make flip	
Day 5: How do pl grow? Pt. 2  • Watch "Be Lapse"  • Students their seed "greenhou Tape to w	Bean "plant" ls in their use."	

Day 6: Plant Pumpkin		
Seeds for the patch +		
class exploration of the		
school greenhouse		
Day 7: Function of		
structures pt. 1: roots &		
stems		
Discuss function		
of roots and stems		
Explain celery		
experiment and		
have each group		
prepare their		
experiment with		
1		
the following roles:		
○ 1 person		
fills jar with		
water		
○ 1 person		
does food		
coloring		
o 3 people		
cut the		
ends of		
celery and		
put them in		
the water		
Pass out and have		
students complete		
the first part of the		
celery experiment		

T T		
page. Leave		
overnight.		
Day 8: Make observations		
about celery - complete		
celery experiment page.		
Function of structures pt.		
2: leaves		
Key vocabulary		
words:		
○ Photosynth		
esis		
○ Chlorophyll		
Explain the		
process of		
photosynthesis		
with pg 1 of		
"Plants make their		
own food."		
Day 9: Continue function		
of structures pt 2: leaves		
Review process of		
photosynthesis		
Show Magic		
School Bus		
episode: The		
Magic School Bus		
gets planted		
○ • The		

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	Complete pg 3 of
	"Plants make their
	own food"
	Day 10: Review how
	plants use sunlight to
	make their own food.
	Explain that I have
	planted bean seeds in
	three different containers
	- place one in the closet,
	one on the shelf away
	from the window, and one
	in the window. Leave for
	later.
	Compare/contrast
	Review key plant
	structures: roots,
	stem, leaves
	Display picture of
	oak tree vs. daisy
	Explain venn
	diagram (using
	red/blue/purple as
	an example?
	Maybe with
	colored disc
	counters?)
	Pass out papers
	with daisy/oak
	picture on one
	side and venn
	diagram on the

 1 1	
other. Complete	
venn diagram as a	
class	
Day 11: Do we eat all the	
parts of a plant?	
Read "Tops and	
Bottoms"	
Complete Tops	
and Bottoms	
sorting page	
Play "Dirt Made	
My Lunch":	
o ■ The	
o Tile	
Day 12: Do we eat all the	
parts of a plant?	
Continued	
Begin with "Dirt	
Made My Lunch":	
∘	
Display worksheet	
"parts of a plant."	
Discuss ideas for	
each section.	
Pass out bowls of	
food to each team	
- have them figure	
out what goes	
where and place it	
on their paper.	
Then they can eat	
them!	
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Grade: 1st Month:

Content Area: Science

Sub Content/Unit: Space

What our students will know and be able to do	Learning Activities	Materials	Assessment tools	Notes
<ul> <li>Know that the sun is a star</li> <li>Know that the moon is a satellite</li> <li>Know the phases of the moon and what they mean</li> <li>Know that our sun is the center of our solar system</li> <li>Know that we have 8 planets and what those planets are, in order</li> <li>Understand the difference between rock planets and gas giants</li> </ul>	Part 1: The Sun is a Star	<ul> <li>Various TPT resources</li> <li>Oreos</li> <li>Popsicle sticks</li> <li>Paper plates</li> <li>Solar system models (one per 3-4 students - at least 7, plus 1 for the teacher to model)</li> </ul>	Observation and assessment	

<ul> <li>Show Storybots     Sun song:     Outer Spa</li> <li>Complete     Interactive</li> </ul>
Notebook Day 1:  "I learned that "  Lesson 2:
Watch video about the sun:  The Sun fo
Show "Turn and Talk Card 2." Let students
discuss/share facts they have learned about the sun.
Complete     Interactive     Notebook pages
2-3  O What we can see in the day
sky  Ouring the day I see

If time,     demonstrate     how to trace a     person's shadow     outside for     tomorrow's     lesson	
Lesson 3:  ■ Show "Turn and Talk Card 4." Let students discuss/share what they know about shadows.  ■ "What Makes a Shadow?" Read aloud:  ■ What Mak  ■ Shadow experiment: outside in the morning, trace a partner's shadow and record how long it is  ■ That afternoon, do the same experiment. Compare and	

discuss results.
Why are they
different?
Lesson 4:
Review how to
trace a shadow
and write their
name inside the
shadow. Review
how to heel/toe
measure.
Outside,
partners trace
each other's
shadows.
Complete
Interactive
Notebook pg 4:
My Shadow
If time, let
student watch
Peep and the
Big Wide World,
Shadow Play:
■ Peep and t…
Part 2: The Moon
Lesson 1:

•	Turn and Talk card 1: What do you know about the moon? Watch Storybots: "The Moon Song":  Outer Spa Read Big Book about the moon Complete Interactive Notebook pg 1 about the moon: "Today I learned "		
Lessor			
l l	Turn and Talk		
l l	card 2: What do		
	you see in the		
	night sky?		
	Show Pixar		
l l	Short "Day and		
	Night"		
	Day/Night/Both		
l l	sorting activity - "At Night I See		
	" At Night 1 See		

<ul> <li>Pick sticks to sort</li> <li>Interactive Notebook pg. 2 about night: "At night I can see"</li> </ul>		
<ul> <li>Watch Dr. Binocs "Phases of the Moon":</li> <li>Phases Of</li> <li>Demonstrate moon reflection with paper earth, moon, and flashlight sun. :)</li> <li>Complete Interactive Notebook pg 3: Phases of the moon</li> </ul>		
Lesson 4:  Review Phases of the moon Every student gets 8 Oreos (budget for 10 in		

case of	
breakage)	
• Together,	
practice twisting	
open cookies	
and scraping	
frosting to create	
moon phases	
When they are	
all in place, glue	
down. Students	
can eat the	
extras. :) TAKE	
HOME THAT	
DAY - ANTS!	
Part 2: Our Solar System	
Core ideas:	
○ The sun is	
the center	
of our solar	
system system	
○ We have 8	
planets	
(sorry,	
Pluto!)	
(know the 8	
planets)	
o Our solar	
system is part of our	
galaxy,	
which is	
William	

called the Milky Way  Our planets are divided into two groups: rocky planets and gas giants		
<ul> <li>KWL: What is a solar system?         How many planets do you think are in our solar system?         (show me on your fingers)         What do you know about any of the other planets? What do you wonder about space?</li> <li>Read "The Planets in our Solar System"</li> <li>Show Storybots "Planets" song:</li> <li>Outer Spa</li> </ul>		

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book Lesson 3:  Play "The plane solar  Vigg My \ Exce	the song ese are the ets in our r system": he Planet gle Break:	

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	Served Unicorn			
	Noodles:			
	□ The Best T			
	Make mnemonic			
	planet book			
	·			
Less	on 4:			
	Play the song			
	"These are the			
	planets in our			
	solar system":			
	□ The Planet			
	Wiggle Break:			
	My Very			
	Excellent			
	Monkey Just			
	Served Unicorn			
	Noodles:			
	□ The Best T			
	Finish mnemonic			
•				
	planet book			
Loo	on F:			
	on 5:			
•	Play the song			
	"These are the			
	planets in our			
	solar system":			
	□ The Planet			
	Wiggle Break:			
	My Very			
	Excellent			

Monkey Just Served Unicorn Noodles: The Best T Color the pages in the solar system book		
<ul> <li>Play the song "These are the planets in our solar system":</li> <li>The Planet</li> <li>Wiggle Break: My Very Excellent Monkey Just Served Unicorn Noodles:</li> <li>The Best T</li> <li>Finish coloring/cutting/a ssembling solar system books</li> </ul>		
Lesson 7:  • Play the song  "These are the planets in our		

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solar system":  The Planet  Wiggle Break: My Very Excellent Monkey Just Served Unicorn Noodles: The Best T  Groups work on solar system models			
Lesson 8:  Play the song "These are the planets in our solar system": The Planet  Wiggle Break: My Very Excellent Monkey Just Served Unicorn Noodles: The Best T  Groups work on solar system models			
Lesson 9:			