

Table of Contents

Descriptions and Instructions for Each Page in Journal	6	Lesson 6 The Moon	79
Daily Schedule/ Reading Guide	7	Coloring Pages About the Moon	79
Journal Owner Cover Page	9	Fascinating Facts About the Moon	81
 Lesson 1 What is Astronomy?	10	Notebooking Activity: Chart the Moon	83
Coloring Pages About Astronomy	10	Scripture Copywork	84
Fascinating Facts About Astronomy	12	Moon Phases	86
Notebooking Activity: Mnemonic	13	Project Page	87
Scripture Copywork	14	Minibook Paste Page	88
Vocabulary Crossword	16	Take It Further	89
Project Page	17	 Lesson 7 Mars	91
Minibook Paste Page	18	Coloring Pages About Mars	91
Take It Further	19	Fascinating Facts About Mars	93
 Lesson 2 The Sun	20	Notebooking Activity: Going to Mars	95
Coloring Pages About the Sun	20	Scripture Copywork	96
Fascinating Facts About the Sun	22	Vocabulary Crossword	98
Mid Lesson Activity: Write a Speech	24	Project Page	99
Notebooking Activity: Sun Collage	25	Minibook Paste Page	100
Scripture Copywork	26	Take It Further	101
Vocabulary Lift The Flap	29	 Lesson 8 Space Rocks	103
Project Page	32	Coloring Pages About Space Rocks	103
Minibook Paste Page	33	Fascinating Facts About Space Rocks	105
Take It Further	34	Notebooking Activity: Comets, Meteors, Asteroids	106
 Lesson 3 Mercury	36	Notebooking Activity: Meteor Showers	107
Coloring Pages About Mercury	36	Scripture Copywork	108
Fascinating Facts About Mercury	38	Vocabulary Story	110
Scripture Copywork	40	Project Page	111
Vocabulary Puzzle Game	43	Minibook Paste Page	112
Project Page	48	Take It Further	113
Minibook Paste Page	49	 Lesson 9 Jupiter	114
Take It Further	50	Coloring Pages About Jupiter	114
 Lesson 4 Venus	51	Fascinating Facts About Jupiter	116
Coloring Pages About Venus	51	Notebooking Activity: Make a Newspaper	117
Fascinating Facts About Venus	53	Scripture Copywork	118
Notebooking Activity: Comic Strip	55	Jupiter Vocabulary	120
Scripture Copywork	56	Project Page	121
Vocabulary Story	58	Minibook Paste Page	122
Project Page	59	Take It Further	123
Notebooking Project: How Radar is Used	60	 Lesson 10 Saturn	124
Minibook Paste Page	63	Coloring Pages About Saturn	124
Take It Further	64	Fascinating Facts About Saturn	126
 Lesson 5 Earth	65	Notebooking Activity: Make a Venn Diagram	128
Coloring Pages About Earth	65	Vocabulary Crossword	129
Fascinating Facts About Earth	67	Scripture Copywork	130
Notebooking Activity: Advertisement	69	Project Page	132
Scripture Copywork	70	Minibook Paste Page	133
Vocabulary Lift The Flap	73	Take It Further	134
Project Page	76		
Minibook Paste Page	77		
Take It Further	78		

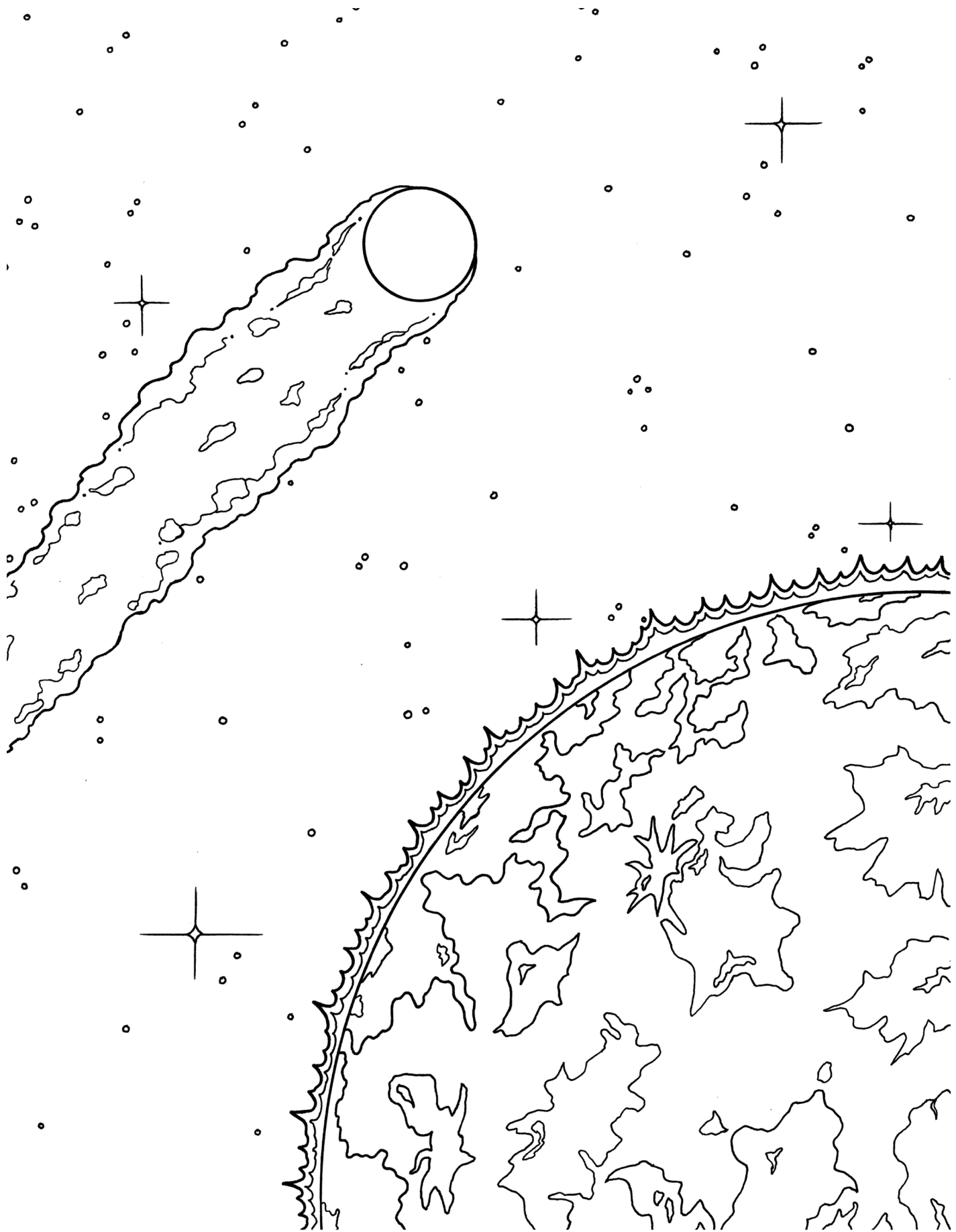
Table of Contents

Lesson 11 Uranus and Neptune	135	Answers to the Vocabulary Activities	188
Coloring Pages About Uranus and Neptune	135	Field Trip Sheets	203
Fascinating Facts About Uranus and Neptune	137	Minibooks	Appendix
Notebooking Activity: The Discovery of Uranus	138		
Neptune and Uranus Match Up	139		
Scripture Copywork	142		
Project Page	144		
Minibook Paste Page	145		
Take It Further	146		
 Lesson 12 Pluto and the Kuiper Belt	 147		
Coloring Pages About Pluto and the Kuiper Belt	147		
Fascinating Facts About Pluto and the Kuiper Belt	149		
Notebooking Activity: Pluto Debate	150		
Vocabulary Puzzle Game	151		
Scripture Copywork	156		
Project Page	158		
Minibook Paste Page	159		
Take It Further	160		
 Lesson 13 Stars and Galaxies	 161		
Coloring Pages About Stars and Galaxies	161		
Fascinating Facts About Stars and Galaxies	163		
Notebooking Activity: Constellations in my Area	165		
Notebooking Activity: Constellations I found	166		
Stars and Galaxies Identification	167		
Scripture Copywork	168		
Project Page	170		
Minibook Paste Page	171		
Take It Further	172		
 Lesson 14 Space Travel	 173		
Coloring Pages About Space Travel	173		
Fascinating Facts About Space Travel	175		
Notebooking Activity: Let's Visit the Planets	176		
Vocabulary Puzzle Game	177		
Scripture Copywork	182		
Project Page	184		
Minibook Paste Page	185		
Minibook Paste Page	186		
Take It Further	187		



...the stars will fall from the sky, and the heavenly bodies will
be shaken.'

Mark 13:25



Great is our Lord and abundant in strength; His understanding is infinite.

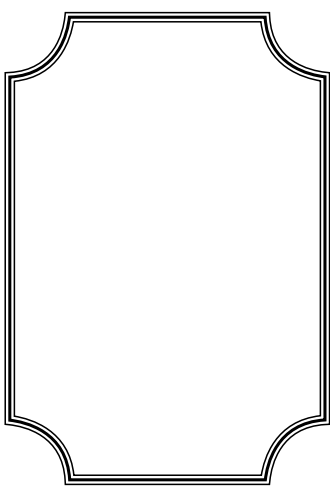
Psalm 147:5

FASCINATING FACTS

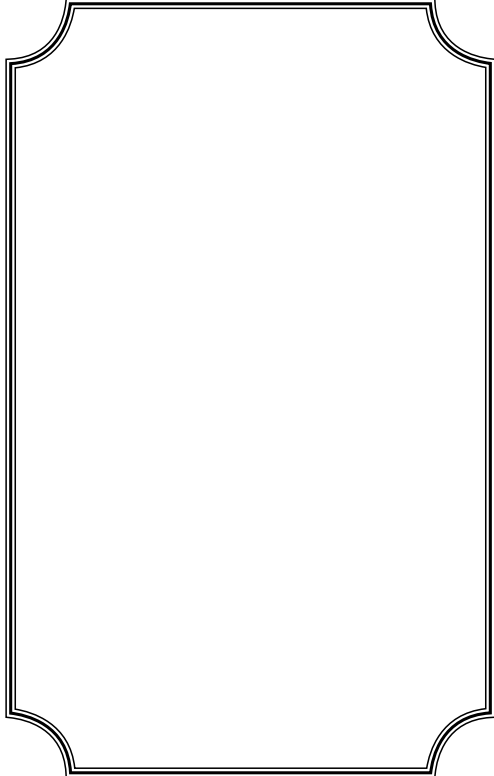
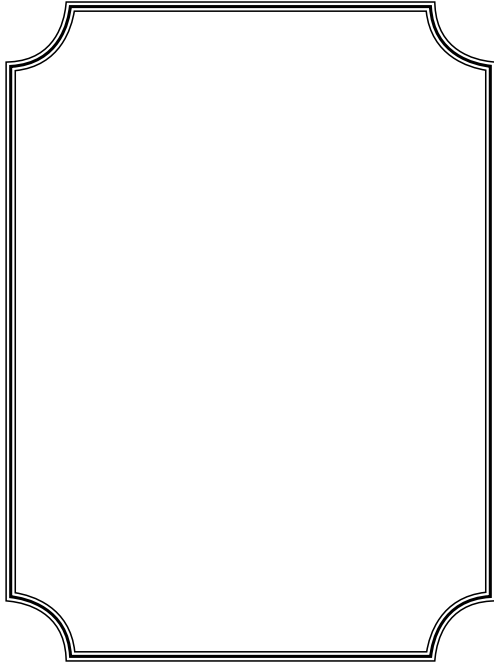


ABOUT **Space Rocks** Lesson 8

Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line. There are four sets of these lines, each providing space for a single line of text.



Handwriting practice lines consisting of solid top and bottom lines with a dashed middle line. There are four sets of these lines, each providing space for a single line of text.





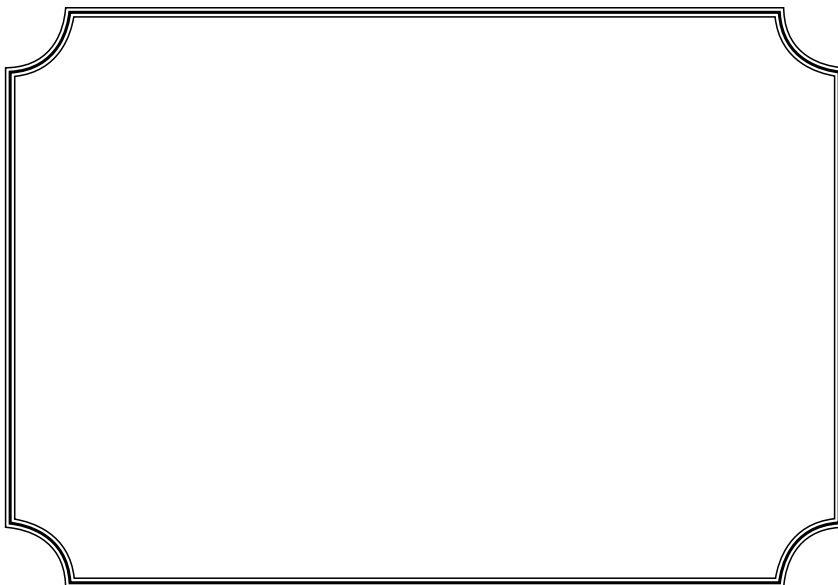
Comets

Handwriting practice lines for the word 'Comets', consisting of a solid top line, a dashed middle line, and a solid bottom line, repeated three times.



Meteors

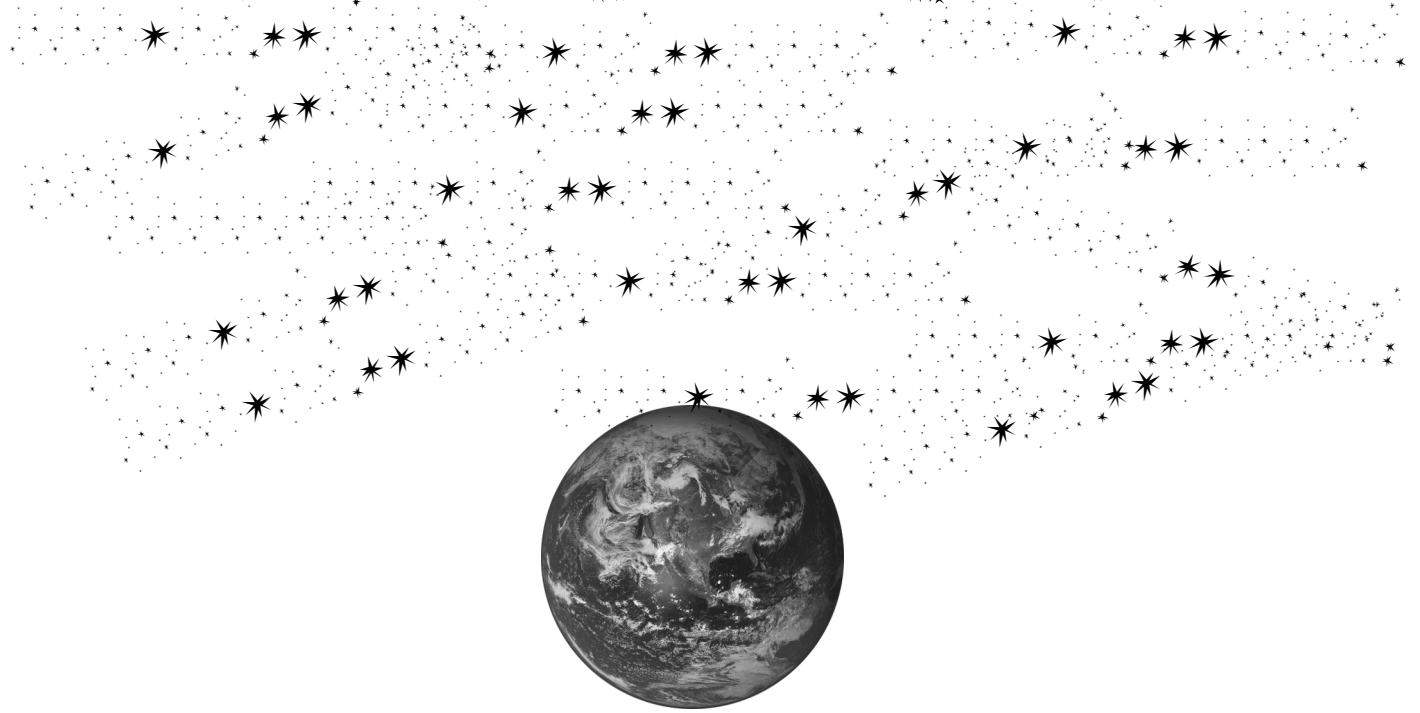
Handwriting practice lines for the word 'Meteors', consisting of a solid top line, a dashed middle line, and a solid bottom line, repeated three times.



Asteroids

Handwriting practice lines for the word 'Asteroids', consisting of a solid top line, a dashed middle line, and a solid bottom line, repeated three times.

Meteor Showers



Shower Name	Approximate date to see	Name of comet	Number of shooting stars per hour
Quadrantids	January 3	Unknown	40
Pi Puppids	April 5	Unknown	40
Lyrids	April 22	Comet Thatcher	15
Eta Aquarids	May 5	Comet Halley	20
Delta Aquarids	July 30	Unknown	20
Perseids*	August 12	Comet Swift-Tuttle	50
Orionids	October 22	Comet Halley	25
Taurids	November 4	Comet Encke	15
Leonids	November 17	Comet Temple-Tuttle	15
Geminids*	December 14	Asteroid 3200 Phaethon	50
Ursids	December 23	Comet Tuttle	20

* Indicates large meteor showers



Trust in the LORD forever, for in GOD
the LORD, we have an everlasting Rock.

Isaiah 26:4



*Trust in the LORD forever, for in GOD
the LORD, we have an everlasting Rock.*

Isaiah 26:4

SPACE ROCKS VOCABULARY STORY



LESSON 8



One day, I walked outside and right in my front yard was a giant hole that had not been there the day before. Inside the hole was a jagged rock. It was about 10 inches long and 5 inches wide. I realized that I discovered a _____ lying in my yard! I was so excited. Before this special rock was sitting in my yard, it had been in space. In space, it was called an _____. But, somehow this special asteroid got in the way of the earth's orbit and was suddenly pulled into the earth's atmosphere. When it entered our atmosphere, it must have caught on fire. Many people would have thought it was a shooting star, but it was really a _____. Sometimes a whole bunch of rocks and dust hit our atmosphere at once and create a lot of these shooting stars. We call this a _____.

I wonder if any more rocks will fall from the sky and hit my lawn. I know there are a lot of them up there circling the sun in the _____, which is right in between the _____ planets and the _____ planets. I wonder if there was once a planet there between Mars and Jupiter. Maybe that's why there are so many rocks right in that space between them.

I hope we never have a _____ hit our atmosphere. They are like huge, dirty snow balls. Some comets, like Halley's comet, come by the earth every 76 years. We call this a short period comet. If a comet takes longer than 200 years to orbit the sun, we call it a _____ comet. Next time Halley's comet comes by the earth, it will be sometime after the year 2061. I will be _____ years-old! I hope I remember to watch for it.

Choose from the words below to fill in the blanks in the Venus Vocabulary Story.

Asteroid
Meteor
Inner

Asteroid Belt
Long Period
Meteor Shower

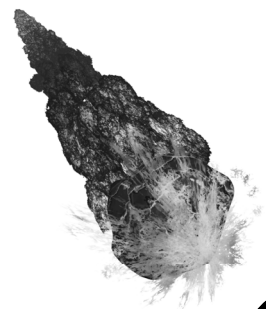
Meteorite
Comet
Outer

My Space Rocks Project

Lesson 8

What I did:

What I learned:



Space Rocks Minibook

Lesson 8

Paste your Space Rocks
Layered Book onto this
page.





TAKE IT FURTHER

LESSON 8



Solar System Model Options

Here are two optional activities to help you understand the distance between the planets. In both activities, you will need something to represent each planet and the sun. You can use the objects from the lesson on page 101, or something that is not to scale, such as marshmallows. In both activities, you will need a long hallway—such as you might find in a church.

Toilet Paper Model or Paper Clip Model

Using a roll of toilet paper or 392 paper clips, each sheet or clip represents 10,000,000 miles. Begin placing toilet paper sheets or paper clips from the sun to each planet in our solar system.

Planet	# of Sheets or Paper Clips from sun	# of Sheets or Paper Clips from previous planet
Mercury	4	4
Venus	7	3
Earth	10	3
Mars	15	5
Jupiter	52	37
Saturn	96	44
Uranus	192	96
Neptune	300	108

Dry Ice Comet Model

If you are feeling very adventurous, this activity is great fun for classes, giving everyone a real feel for comets. You can find dry ice in the yellow pages by searching under “ice.” Make sure to bring an ice chest to transport the dry ice from the place of purchase to your freezer. ***Remember that dry ice can be a dangerous chemical, so please use caution and only do this activity with adult supervision.***

You will need:

- 2 cups of water
- 2 cups of dry ice (frozen carbon dioxide)
- 2 spoonfuls of sand or dirt
- A dash of ammonia
- A large plastic mixing bowl
- 4 plastic garbage bags (put three of them inside of each other to make 1 three-ply bag)
- Work gloves
- A hammer
- A large mixing spoon

Directions:

- Line your mixing bowl with a garbage bag.
- Pour in 2 cups of water.
- Add sand or dirt and stir.
- Add ammonia.
- Add corn syrup and stir.
- Put on your gloves.
- Place the dry ice in the three-ply bag.
- Pound and crush the dry ice using the hammer.
- Add the dry ice to the mixing bowl, while stirring.
- Stir until the mixture is frozen.
- Use the bag in the bowl to shape the materials into a ball.
- Unwrap the ball once it is frozen. This is your comet.

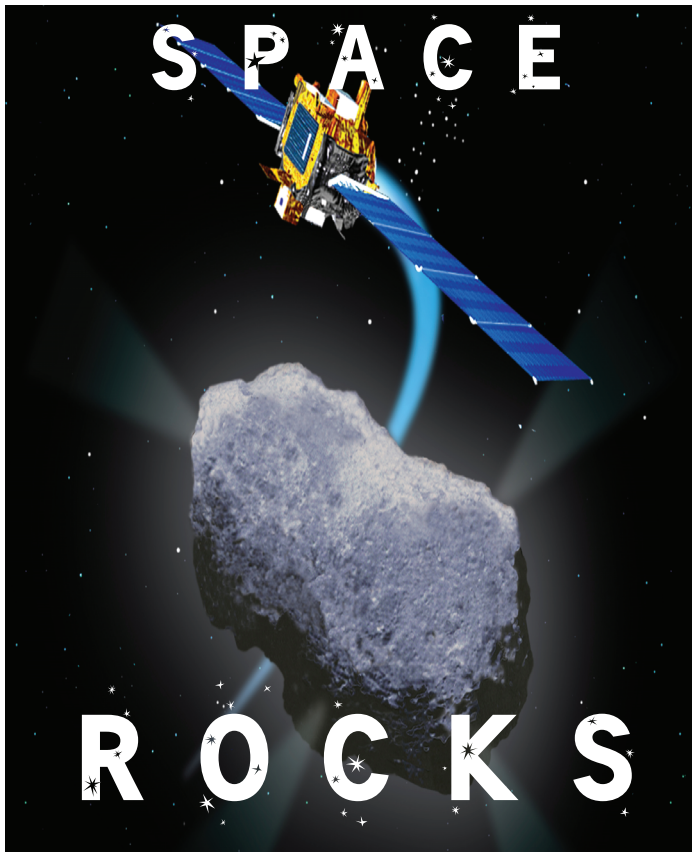
Model of Solar System with Asteroid Belt

On a sheet of construction paper, draw our solar system with colored markers, leaving a space for the asteroid belt. After drawing all the planets, use glue to trace the path of the asteroid belt. Sprinkle sand, salt, pepper, or glitter over the page so that it sticks to the glue, simulating the asteroid belt.

Cartoon of Exploded Planet

Create a cartoon of the events that led up to and culminated in the alleged explosion of the planet between Mars and Jupiter.

SPACE ROCKS LAYERED BOOK



Glue the Space Rocks Title Page Here

What are Asteroids?

What is the Asteroid Belt?

ASTEROIDS

Instructions:

1. Write down facts you learned under each title listed on the rectangle pages of your layered book.
2. Cut out all four rectangle pages (Space Rocks, Asteroids, Meteors, Comets).
3. Stack the pages on top of each other with the smallest page on top.
4. Line the pages up at the top with the title of each page showing at the bottom.
5. Staple the pages along the top to secure them together.
6. Glue your layered book onto the "Space Rocks Minibook" paste page (*NJ p. 112*).
7. Lift the layers to read about space rocks.

Glue the Asteroids Page Here

What are Meteoroids?

What are Meteors?

What are Meteorites?

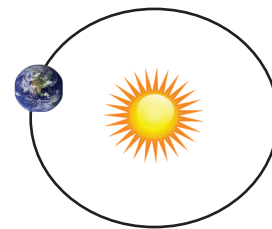
What are Shooting Stars?

METEORS

Glue the Meteors Page Here

What are Comets?

Draw a Comet's Orbit



**How are Comets
Evidence for Creation?**

COMETS