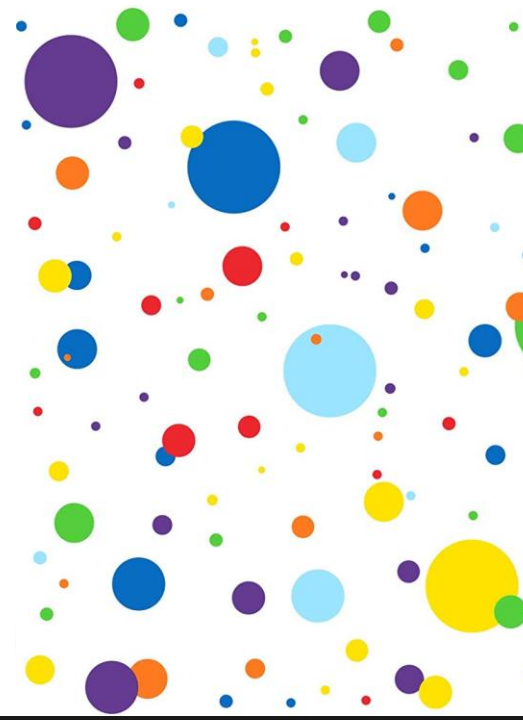


*Story time
with
Good Rainbow*

The Field of the Sky
Exploration Guide



For Parents & Educators

The Story Time with Good Rainbow Exploration Guide is to take your story experience further through activities designed with multiple intelligences and different learning styles in mind.

Let's get started!

Story time with Good Rainbow

WATCH THE
EPISODE ON

You **Tube**

Click on the TV to view!



WATCH



Before you watch...

1. What do you think this story is about?
2. Look at the video thumbnail. What can you tell?
3. What do you think “the field of the sky is”?

While you’re watching...

Think about:

1. What do you know about shooting stars?
2. Are shooting stars stars?
3. Where do shooting stars come from?
4. What is a meteorite?
5. What are some meteorites made of?
6. What happens when a large meteorite lands on our planet?

When you’re done watching...

1. What is a meteoroid?
2. What is a shooting star?
3. Why do space rocks burn in the Earth’s atmosphere?
4. What is a crater?
5. Would you like to hold a meteorite?

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ACTIVITY

1

1. Create a crater

You'll need:

- a hard surface that's easy to clean
- flour
- colored sprinkles
- cocoa
- a few trays or plates (deep and unbreakable)
- a sieve
- rocks of different sizes

Here's how:

1. Find 3 or 4 rocks of different sizes.
2. Set your materials on a hard surface that's easy to clean.
3. Fill an equal number of trays with an inch of flour.
4. Add a levelled layer of sprinkles.
5. Use the sieve to sift the cocoa for a levelled layer on top.
6. Choose one of the rocks, raise your hand to as far as you can, and drop the rock straight on.

What do you observe in the crater you've created?

ACTIVITY

1

Here are some questions to help you:

- Did the rock stay in the crater or bounce out?
- Do you see white lines (from the flour) radiating away from the crater (against the brown cocoa surface)? They're called rays or ejecta patterns in scientific terms.
- Have any of the sprinkles been displaced? This is called subsurface material.

Write your findings here:



ACTIVITY

1

Now using the same rock, throw it at an angle in another tray.

What do you observe? Is there a difference in the two craters? What are they?

Here are a couple of questions to help you:

- Are the ejecta patterns (rays) different with this one?
- Are there some around the impact or just on one side?

Write your findings here:



ACTIVITY

2



Make a meteor shower

You'll need:

- a hard surface that's easy to clean
- black craft paper
- PVC (plain white) glue or any good craft glue (and something to apply it with, like a brush)
- purple, green, red, orange, and yellow glitter
- a trash can (if you want to throw the glitter away afterwards) or a tray (or something to collect the glitter in for later use)
- clear sealant spray (to keep the glitter in place)

Here's how:

1. Set your materials on a hard surface that's easy to clean.
2. Get the black craft paper and use the glue to make a shooting star. Make the head first – or in scientific terms – the **nucleus**. Then make its tail.
3. Choose one of the colored glitters and sprinkle it on the glue.
4. Repeat with all the other colors.
5. Give it an hour or two to dry.
6. Dust off the extra glitter (into a trash can if throwing away) or into a tray (if keeping).
7. Spray sealant on the shooting stars.
8. Give your meteor shower a name. You can name it after yourself if you like. If your name is Mark, you could call it the *Markonids* or if it's Ella, you could call it the *Ellinids*.

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ACTIVITY

3



Write about a meteorite

Look up what was the largest meteorite to have been found on our planet. Write a paragraph about it on any writing app or software you use on your device.

Include:

- its name
- when it was found
- where it was found
- who found it
- how it was found
- what its made of
- how much it weighs
- what its dimensions are
- where it is now
- anything else you'd like to add

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ACTIVITY

4



Compare the largest meteorite to...

Do some calculations and find out:

The largest meteorite weighs as much as (how many) _____ elephants:

Show your calculations here:

The largest meteorite weighs as much as (how many) _____ SUVs:

Show your calculations here:

The largest meteorite weighs as much as (how many) _____ (make your own choice for comparison)

_____:

Show your calculations here:

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ACTIVITY

5



Record a live report

You're a reporter. Imagine a large meteorite has just been discovered. Record a short report about this meteorite.

In your report include the following:

- when it was found
- where it was found
- who found it
- how it was found
- who has access to examine it
- what the experts are saying about it

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ACTIVITY

6



Watch a meteor shower:

There are meteor showers that you can see in different times of the year. Go online and find out which ones are seen best from where you are in the world. Organize a group of friends and make a star-filled night of it!

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SHARE



Good Rainbow loves seeing what you've created. If you like, share what you have made and tag her on Instagram.

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About Story Time with Good Rainbow

Story Time with Good Rainbow imaginatively dramatizes all sorts of stories - space stories, folk tales and fairy tales, legends and myths, fables, terrible tales, seasonal tales, surprise stories, and more - aiming to inspire a love for stories, ignite the imagination, and spark curiosity in both the young and the young at heart.

Find Story Time with Good Rainbow

