**Zany Circus: Paradox**

**Written Questions**

*Answer at least two thirds of these questions*

Why is dark matter called dark matter?

Are quantum particles gigantic, or tiny?

What is Gabby’s name?

Who was the goblin?

Which child tried to eat cat food, and why?

Was Shrödinger’s cat dead, alive, or both?

Was Diogenes a cynic, or a pragmatist?

What do philosophers and scientists ask?

Isaac Newton once said, "Every body continues in its state of rest, or of uniform motion in a right line, unless it is compelled to change that state by forces impressed upon it." This sentence describes Newton's First Law of Motion. Do you think Newton's First Law of Motion also doubles as a metaphor for life? Clue - there are no wrong answers here. Be creative.

Diogenes thought that no one should be ashamed to do anything in public that was natural to do in private. Do you agree with him? Can you write a persuasive text in favour of your opinion?

Do you ever feel trapped by the values of the society you live in? Can you think of an aspect of society that you would change if you could?

Diogenes said, "He has most, who is most content with the least." What do you think this means?

Do a project on Diogenes in any way you want. Write a poem, make a movie, draw a picture, read a book. Whatever appeals to you.

What does the acronym AC/DC stand for?

Why did Thomas Edison electrocute an elephant?

If you could time-travel, where would you go? What would you do? Who would you meet?

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**Activities**

*Complete at least two of the following activities*

Write a story or poem about what you would do if you could time travel.

If you have a favourite book, write a review. You can include things like who/what the book is about, what genre it is, what you like about it, and who your favourite character is.

If you make a colour wheel, and get it to spin fast enough, the colours will seem to mix together and create a white blur. This is because when all the different wavelengths (colours) of light are combined, our eyes perceive it as white light. Give it a try, if you're crafty or bored. All you need is a circle of strong white paper, coloured pencils, and an extra pencil to poke through the middle of the circle when you are finished. You can use the extra pokey-pencil as a pivot to spin your paper. Or you can (carefully!) blu-tack your colour wheel to the centre of a pedestal fan. Or you can write a lovely message on the back, and mail it to your Nan. She would like that.

If you want a wonderful new outfit, but your parents don’t want to go shopping, grab a bed sheet and make a chiton. With permission, of course. If you fold the sheets in halves, thirds or quarters (depending on your height), you should be able to make trendy chitons without cutting anything. Clothes-pegs make great clips and brooches, especially when you decorate them with paint and glitter. Ancient Greeks didn't use glitter, but that doesn't mean you can't!

When the Zany Circus kids time travelled for the second time, they saw the Parthenon. Look it up, and try to make a replica of it, using pop sticks and blu-tack, or skewers and marshmallows, or something else and something else. Or draw it. Or build it in Minecraft. Or stare longingly at the Parthenon, imagining what it would feel like to stand in the shadow of history. Or, take the aforementioned pop sticks and blu-tack, and make a booby trap instead.

If you have a few siblings around, you could try performing the ‘Just Might Be Zany’ song with them, with each of you playing the part of a different character. You will find the lyrics in this booklet. If you wanted to, you could even dress up as the characters. Or use the puppets templates to create a video clip to go with the song. Puppet Pals (or a similar app) can help you turn your puppets into simple animations.

Draw a silhouette of yourself on a piece of cardboard. It doesn't have to be big. 15cm from head to toe is fine. Cut out the silhouette-doll, and decorate it with woollen hair, crayon-skin, googly eyes, and anything else you can think of. Measure the doll, or trace around it on a piece of paper, so you can design clothes to fit him or her. When you cut out the clothes, make sure you leave sticky-outy tabs around the edges. You can fold the tabs around the back of the doll to make the clothes stay on. You can be a fashion designer, or make clothes from different historical eras. You can set up interesting or funny back-drops for your paper-doll, and take photos. You can use the photos to create a comic book to explain the story behind the photographs. If you make lots of cardboard dolls-puppets, you can make up a play of your own. Maybe you could even use an iPad, smart-phone or computer to make a movie, starring your puppets.

Use whatever materials you have on hand to create a sculpture that represents something you feel passionate about. It can be made out of what ever you like, and it can look any way you want.

Make up your own activity based on something from the book. Be creative, and have fun!