

DUKE ENERGY SCIENCE NIGHT

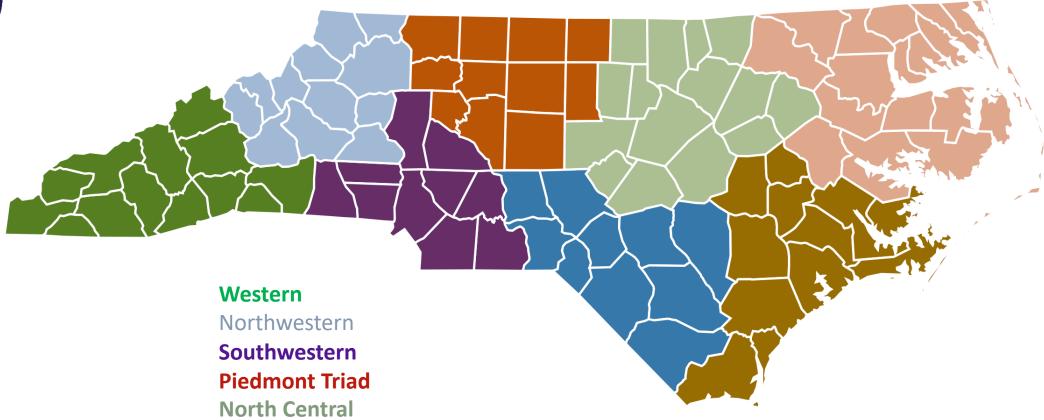
2020-2021 Program
Activity and Resource Overview Webinar

AGENDA

- Introductions and Poll Questions
- Program and Resources Overview
- Timeline
- 2021 Flexibility
- 2021 Activity Overview
- 2021 Materials Kit Unboxing and Preview
- Communications and Social Media
- Questions and Discussions







Sandhills

Northeast

Southeast

PROGRAM AND RESOURCES OVERVIEW

Events organized by elementary schools with the support of NCSciFest staff and funding by Duke Energy Foundation

- Planning Guide
- Activity Guides, Instruction Sheets, and Table Cards
 - English and Spanish online
 - Printed/laminated English in kits
- Activities
 - Aligned to NC Science Standards (K-5)
- Materials Kits
 - Supplies for 200 participants
 - Banner, Flat Kelvin, fun festival giveaways
- Guidance and Support
- Instructional Webinars



PLANNING GUIDE

Contents

Section

200.011	<u> </u>
About	2
Welcome Letter	3
Contents	4
In The Box	5
Planning	6
Activity Needs	9
Materials	10
Timeline	11
Publicity	14
Volunteers	15
Additional Concerns	17
Activity Facilitation	18
Event Extensions	20
Evaluation	22
Contact Information	23
Be a Citizen Scientist	24
Acknowledgements	25
Sponsors	Back Cover

Page



ACTIVITY GUIDES & INSTRUCTION SHEETS

Activity Guides (also available in Spanish*)

Each activity guide is divided into sections to make it easy to read and understand:

+ ACTIVITY NAME

- Appears on top of front side
- Name matches labels on the bag(s) of materials in the kit

+ BIG IDEA

Sums up what the activity is all about

+ YOU WILL NEED

 Lists the materials we supplied and the ones you provide

+ SET IT UP

Tells you how to set up the activity station

+ IT'S SHOWTIME

 Explains how to easily guide families through the activity

+ FUN OPTIONS

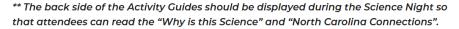
- Ahead of Time: provides options for you to consider
- During the Science Night: options for the facilitator to consider

+ WHY IS THIS SCIENCE?**

- Explains how the activity relates to science, technology, engineering or mathematics
- Gives a basic explanation of the science going on in the activity

+ NORTH CAROLINA CONNECTION**

 Shows how the activity is related to North Carolina's history & culture



Instruction Sheets (also available in Spanish*)

Each instruction sheet lists the materials and steps that each participant will use. They should be displayed during the Science Night so that attendees can refer to them during the activity.

* Spanish versions available at www.ncsciencefestival.org/DESN-resources/2021



TIMELINE

- Oct 21, 2020: Welcome Webinar
- Nov 18, 2020: Virtual Learning Webinar
- Jan 2021: Online resources available
- Jan 20, 2021: Kit Unboxing and Activity Overview Webinar
- Feb 1, 2021: Kits will ship
 - Feb 15, 2021: Deadline to notify us of any kit issues
- Feb 24, 2021: Microscope Webinar and Photo Contest
- Mar 17, 2021: Galilean Cannon Webinar and Challenge
- Apr 2021: Use your DESN activity kits
- May 12, 2021: Program debrief and feedback Webinar



2021 FLEXIBILITY

Mindful of COVID scenarios, schools can use the activity kits in multiple ways:

- Host an evening family science event
- Do the activities in classrooms during the school day
- Send activities home for students to do with their families
- Materials list online if want to purchase supplies for more students



2021 ACTIVITIES

	Target Grade if	Indiv	ndiv		Broad	
		to separate Materials		Standard	ndard	
Activity	in 2021	?	Grade	Science	NC Standard	NC Standard
I Spy with my Microscope Eye* **	All	N	all	Life	Structures of Living Organisms	
Galilean Cannon**	All	N	all	Physical	Forces and Motion	
Computer Vision	All	N	3,4,5	Computer	(Artificial Intelligence)	
Parachutes	К	Υ	K,3	Physical	Forces and Motion	K.P.1.2
Garden in a Glove*	1	Υ	1, 3	Life	Ecosystems	1.L.1.1
Genetic Traits Bracelet	2	Υ	2,5	Life	Genetics	2.L.2.1&2
Fingerprints*	3	(Y)	3	Life	Structures of Living Organisms	3.L.1.2
Capillary Flowers*	4	(Y)	2,3,4	Physical	Matter Properties	4.P.2.1
Build a Cell*	5	Υ	5	Life	Structures of Living Organisms/Genetics	5.L.1.1
Ring Gliders	All	(Y)	1,3,4,5	Physical	Forces and Motion	
8 Cardal con all alkal and announce in ala			والماط والخارون			



^{*} Could use digital microscope in classroom or virtual setting with this activity.

^{**} Will cover in a webinar

2021 MATERIALS KIT







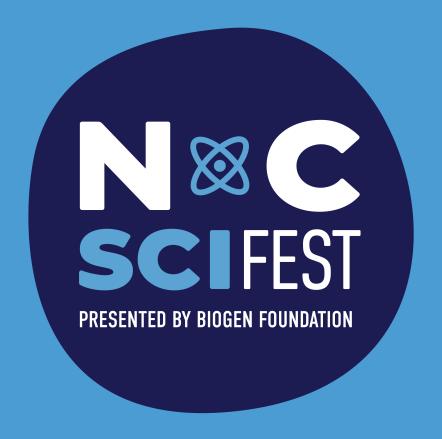
COMMUNICATION AND SOCIAL MEDIA

- We will gather information from each school
 - How you plan to use the kit
 - When you plan to use the kit
- We will email bi-weekly with tips and reminders
- Please Inventory kit notify us by Feb 15 if problem
- Please use Flat Kelvin post on Social Media
- Questions or problems email ncscifestschools@unc.edu



Questions?

ncscifestschools@unc.edu



LEARN MORE: www.NCSciFest.org

Science For All

April 2020

PRESENTING SPONSOR



DIAMOND CHAMPION



PLATINUM SPONSORS











GOLD SPONSORS











BRONZE SPONSORS

UNC Health Care

Michael & Laura Brader-Araje Foundation

NC Space Grant

SUPPORTERS

BioNetwork

PROUDLY PRODUCED BY

