

# Find Out What Kesler Science Can Do For Science Teachers



  
**KESLER  
SCIENCE**  
COM

Hi, I'm Chris Kesler.

My passion has always been about engaging students. As an award-winning middle school science teacher, I developed student-led lessons that transformed my classroom.

Today, Kesler Science creates TEKS-aligned science lessons that are used in tens of thousands of 4th to 8th grade classrooms.

For almost a decade, we've been supporting teachers as they put their students back in charge of the learning process.

It's time to find out what Kesler Science can do for your science teachers.

[chris@keslerscience.com](mailto:chris@keslerscience.com)



Chris Kesler  
Founder & CEO

[www.keslerscience.com](http://www.keslerscience.com)

**“We are educators supporting educators!”**

The science teachers on our support teams will help your school through every step of the purchasing process:

- Quotes
- Vendor Applications
- Curriculum Implementation
- Teacher Support

Contact us to get started on your Kesler Science journey today!

[kathleen@keslerscience.com](mailto:kathleen@keslerscience.com)



Kathleen Malooly  
Sales Manager

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Access ALL the Kesler Science 4th-8th grade classroom materials.



The ultimate prep for the 5th- and 8th- grade Texas STAAR tests



On-demand professional development for science teachers

# 5E Lessons

“

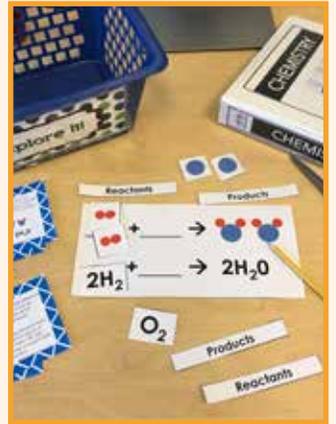
*“LOVING Thermal Energy Transfer station labs today! Thank you, Chris Kesler. Minimal prep, kids are engaged, re-learning how to work together and acquiring knowledge!”*

- Stacy D.

”



# 5E Lessons



## Transform science with our bestselling 5E Lessons.

Engaging lessons made easy for teachers at all experience levels.

- Follows the well-researched 5E model
- Provides the exact tools needed to teach the concept from first engagement to final evaluation
- Includes Station Labs and Interactive Notebooks
- Digital learning ready! Allows for distance learning so science students can stay engaged even outside of the classroom

**Essential Question:**

1. Why does the moon look different every night?
2. Can you make predictions about the Moon's appearance?

A slide featuring an essential question about the moon. On the left is a small image of a rocket launch, and on the right is a large image of Earth from space.

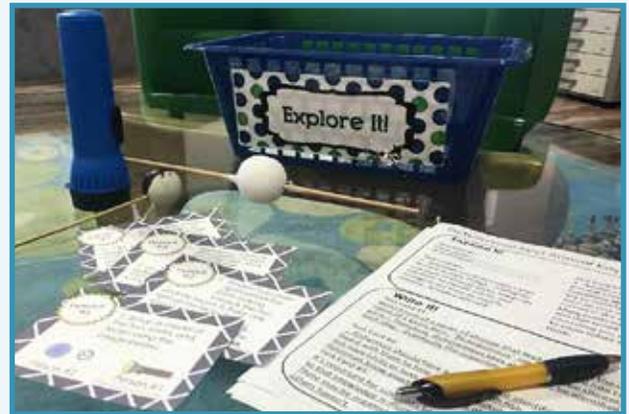
**Quick Action – INB Templates**

**Lunar Cycle Model**

1. Cut out the 3 lunar cycle templates.
2. Glue them as a flip book into your journal.
3. Page 1 should be on top.

A slide titled 'Quick Action – INB Templates' showing a 'Lunar Cycle Model'. It includes a list of three steps: 1. Cut out the 3 lunar cycle templates. 2. Glue them as a flip book into your journal. 3. Page 1 should be on top. To the right is a photograph of a hand holding a completed lunar cycle model flip book.

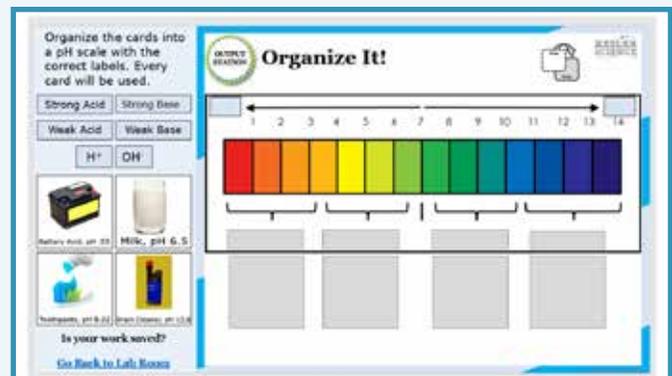
# Station Labs



## Plug and play stations for student discovery

Support engagement with differentiated, multi-modality learning.

- Nine student-led science stations, each addressing a different learning style
- Students learn new information in the Read It!, Explore It!, Research It! and Watch It! stations.
- Students demonstrate their learning at the Illustrate It!, Organize It!, Write It! and Assess It! stations.
- Fast finishers stay engaged at the bonus Challenge It! station.
- Modified reading passages and modular stations for easy differentiation
- Paper and digital versions included



# Interactive Notebooks

Subatomic Particles

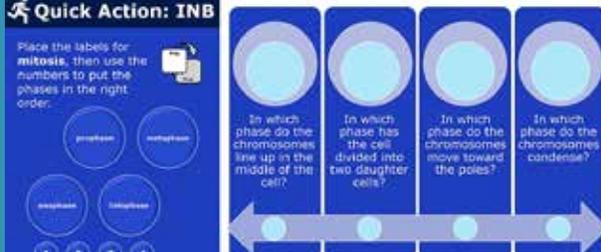
## Manipulatives for chunking and reflection

Bring your students' science journals to life with exciting notebook templates.

- Essential for teachers who want to provide an interactive experience
- Flexible formats: paper and digital versions included.
- Station Labs and Interactive Notebooks are included in each Complete 5E Lesson.

**Quick Action: INB**

Place the labels for **mitosis**, then use the numbers to put the phases in the right order.



The diagram shows four stages of mitosis in a row, each in a circular cell. From left to right, the stages are: 1. Prophase (chromosomes condense), 2. Metaphase (chromosomes line up in the center), 3. Anaphase (sister chromatids separate and move toward poles), and 4. Telophase (nuclei reform). Labels for each phase are provided in circles below the diagram. A double-headed arrow is at the bottom.

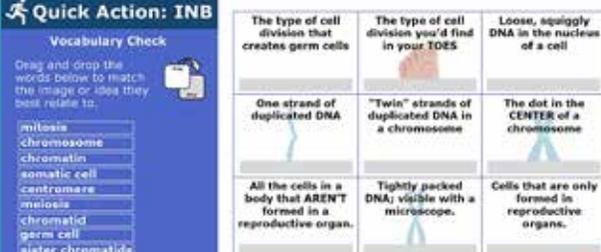
Labels: prophase, metaphase, anaphase, telophase

Numbers: 1, 2, 3, 4

**Quick Action: INB**

**Vocabulary Check**

Drag and drop the words below to match the image or idea they best relate to.



The activity consists of a list of terms on the left and six text boxes on the right, each with a small image. The terms are: mitosis, chromosome, chromatin, somatic cell, centromere, meiosis, chromatid, germ cell, and sister chromatids. The text boxes contain: 1. The type of cell division that creates germ cells. 2. The type of cell division you'd find in your TOES. 3. Loose, squiggly DNA in the nucleus of a cell. 4. One strand of duplicated DNA. 5. "Twin" strands of duplicated DNA in a chromosome. 6. The dot in the CENTER of a chromosome. 7. All the cells in a body that AREN'T formed in a reproductive organ. 8. Tightly packed DNA; visible with a microscope. 9. Cells that are only formed in reproductive organs.

Terms: mitosis, chromosome, chromatin, somatic cell, centromere, meiosis, chromatid, germ cell, sister chromatids

Text boxes: The type of cell division that creates germ cells, The type of cell division you'd find in your TOES, Loose, squiggly DNA in the nucleus of a cell, One strand of duplicated DNA, "Twin" strands of duplicated DNA in a chromosome, The dot in the CENTER of a chromosome, All the cells in a body that AREN'T formed in a reproductive organ, Tightly packed DNA; visible with a microscope, Cells that are only formed in reproductive organs.



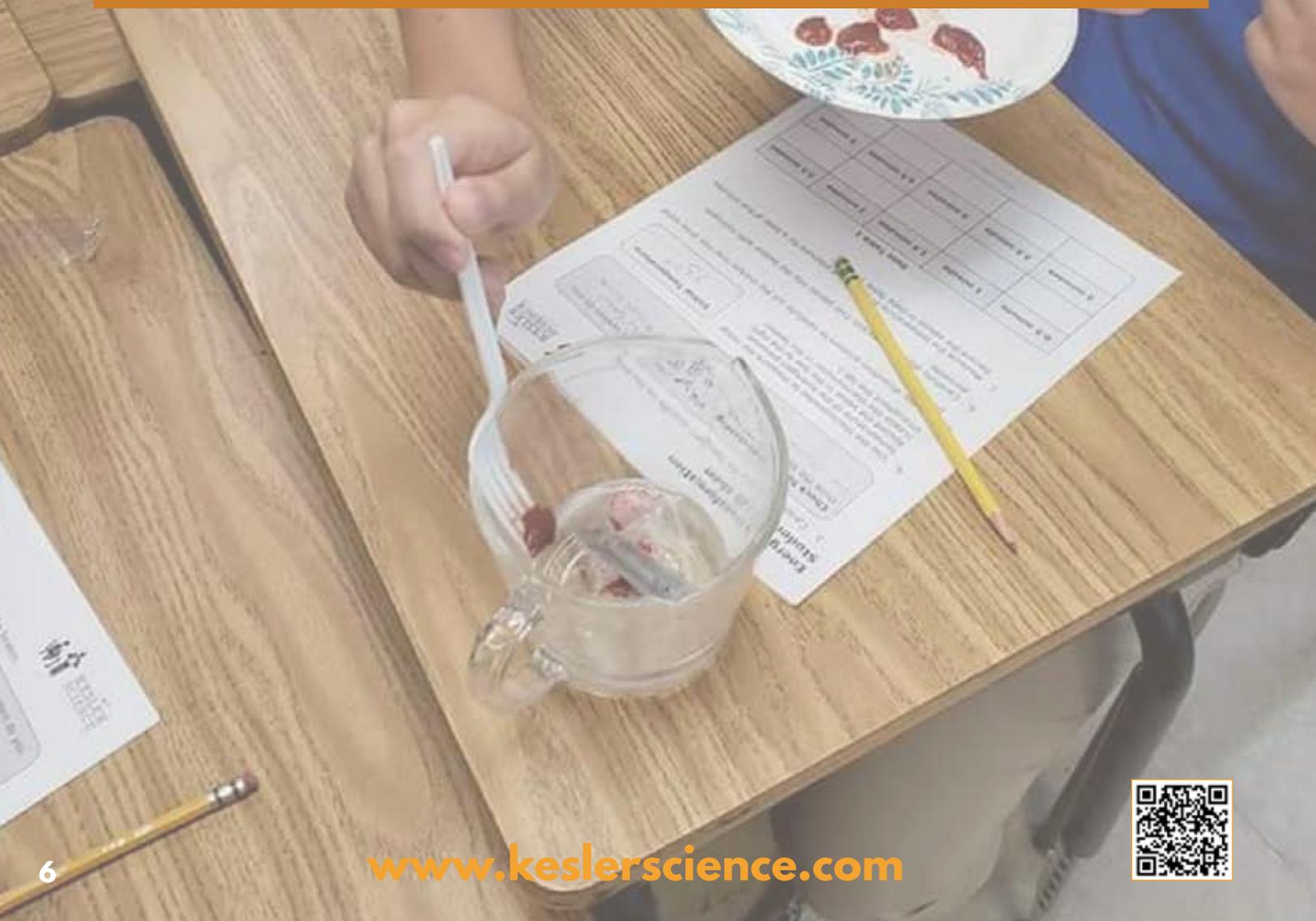
# Inquiry Labs

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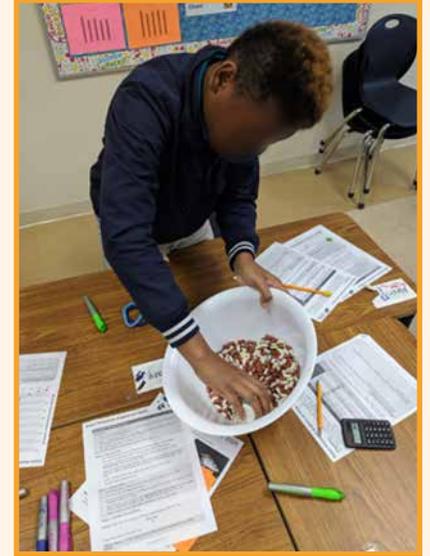
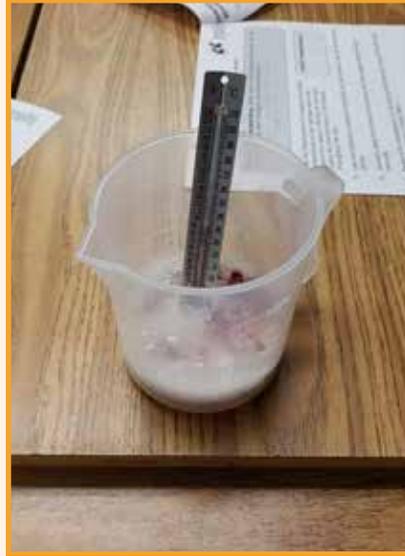
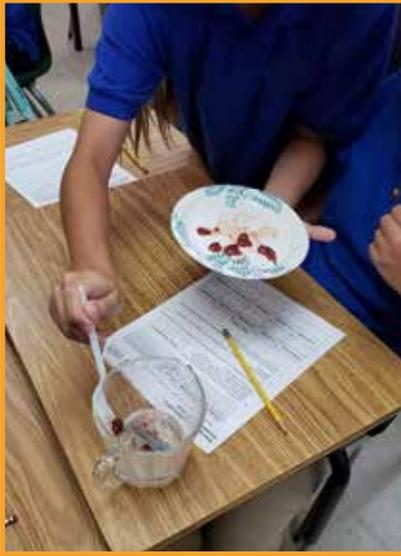
*“Kesler Student Inquiry Labs rock! ...I am beyond excited with ALL the Kesler resources that make my teacher life easier & inspire my students to LOVE science!”*

- Mindy N.

”



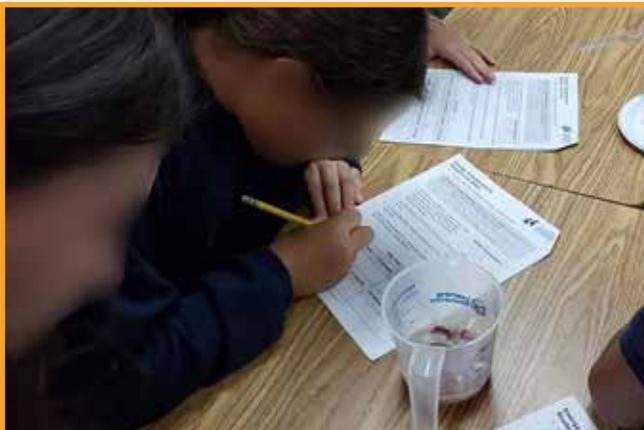
# Inquiry Labs



## Bring hands-on learning back to science.

Students experience the wonder of science as they collect data and use evidence to make real world connections.

- Includes three levels of differentiation
- Simple materials
- Begins with a phenomenon-based reading passage
- Follows the CER model



# KESLER SCIENCE MEMBERSHIP

**Our Membership  
plan includes:**

365 days of access

Thousands of 4<sup>th</sup> – 8<sup>th</sup>  
grade classroom  
resources

Product updates

New instructional  
materials released  
during the year

Live and recorded  
curriculum  
implementation  
sessions with  
certificates



## 5E LESSONS

Two-week lessons with over  
100 topics - 4<sup>th</sup>-8<sup>th</sup> grade



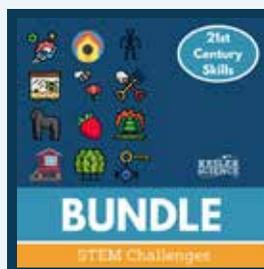
## INQUIRY LABS

Three different levels to meet  
the needs of every student



## ESCAPE ROOMS

Engaging activities for review



## STEM CHALLENGES

Real-world project-based  
learning



## SPANGLER PARTNERSHIP

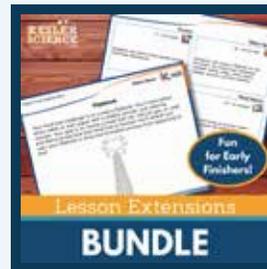
Lessons built around exclusive  
videos by Steve Spangler

# ACCESS ALL OF OUR BEST-SELLING SCIENCE RESOURCES



## AMAZING ANCHORS

Pre-lesson engagement connected to post-lesson reinforcement



## LESSON EXTENSIONS

Activities for early finishers or those who need extra challenges



## SUB PLANS

Never worry again about planning for a sub!



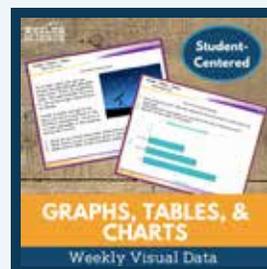
## BOARD GAMES

Easy, printable board games for fun reviewing



## WRITING PROMPTS

Writing activities covering 100+ topics



## GRAPHING

Tables, charts, and graphs in daily or weekly formats



## SCIENCE READING

Leveled reading passages with mini-activities



## CLASSROOM DÉCOR

Poster sets and Science Awards



## WARM-UPS

Bellringers for the entire year



## WIKI TICKETS®

Fun, quick formative assessments

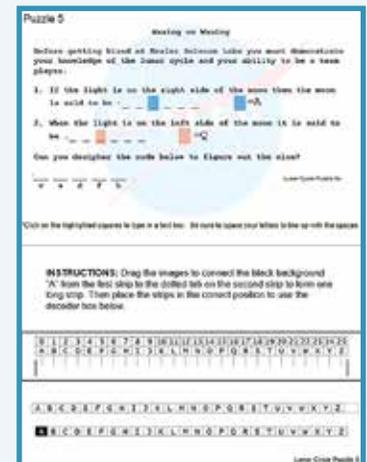
# Escape Rooms



## Science experiences that students will never forget.

Escape Rooms take your review activities to the next level.

- 8 modular escape puzzles per topic
- Students manipulate images and complete puzzles to find codes.
- Interactive version includes type-in answers and drag & drop.
- Detailed teacher directions for set up
- Prize ideas, editable reward templates, and “We Escaped!” signs



# Escape Rooms



“

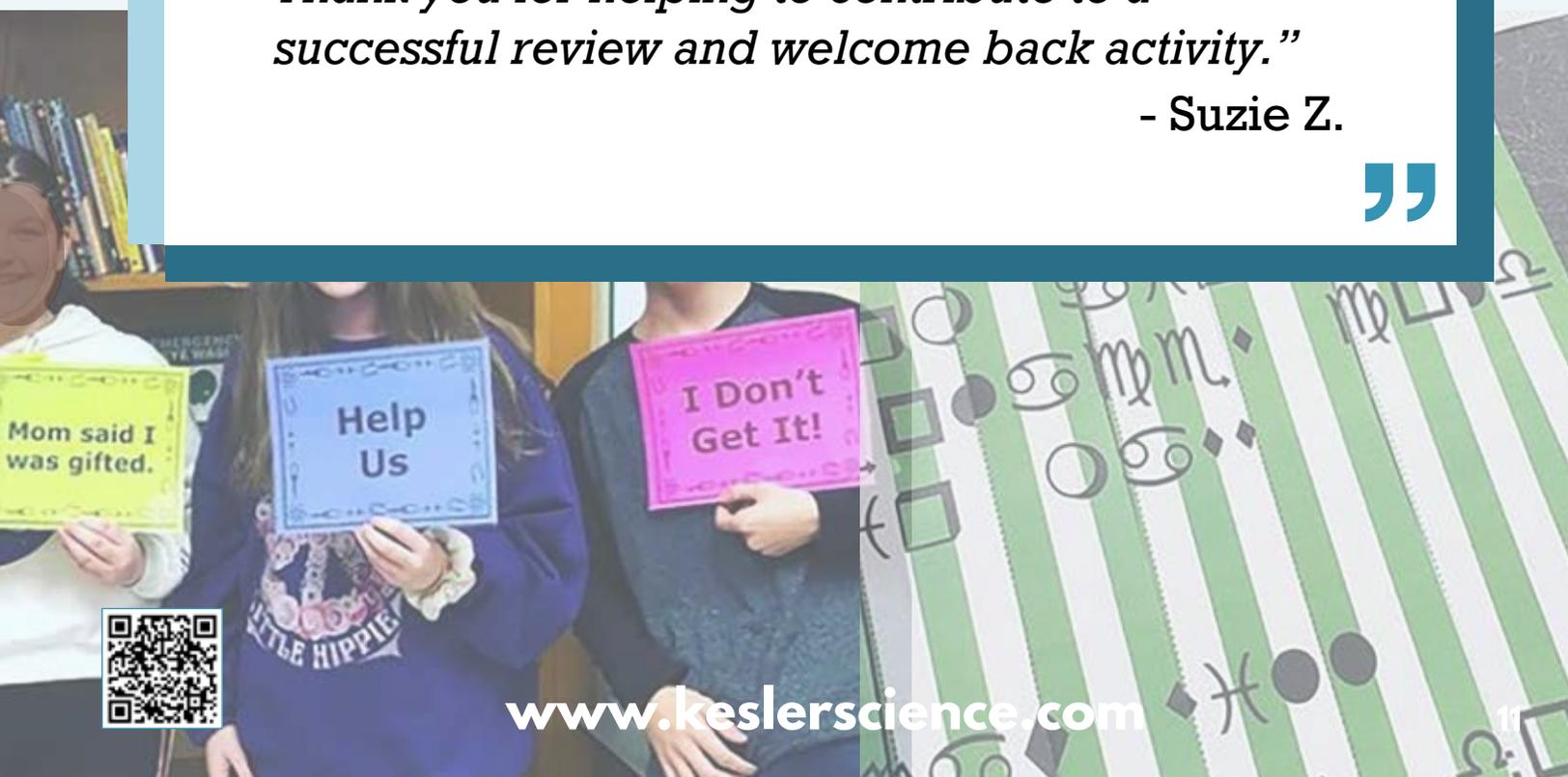
*“Again, I’ve got to hand it to you, Chris Kesler, for the escape rooms...”*

*I ran the Scientific Method escape both with my in-person kids and online kids. All of the kids had a blast working through this escape and were totally engaged.*

*Thank you for helping to contribute to a successful review and welcome back activity.”*

- Suzie Z.

”



# Lesson Enhancements

## Amazing Anchors

- Anchoring Phenomenon!
- Pre-lesson engagement and post-lesson reinforcement
- Differentiated versions



Circulatory System - Part 1 Handout

According to Kevin Slavin, chairman of the Children's Heart Foundation's Board of

Circulatory System Engagement

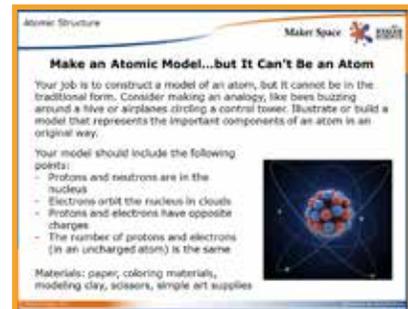
CHD stands for "congenital heart defect" and affects about 1% of all newborn babies in the United States. This means that about 40,000 babies are born each year with heart-related issues that affect the structure and function of their hearts.

Not only does CHD affect an infant's circulatory system, it also impacts the child's health as it grows up. Organizations like the Children's Heart Foundation conduct research and raise awareness about these issues in order to help individuals suffering from CHD have better lives. How could a heart defect impact an infant's long-term health? What are some ways the Children's Heart Foundation could raise awareness about CHD?

Part 2

## Lesson Extensions

- Fun activities for early finishers
- Great for students needing an extra challenge
- Aligned to standards



Atom Structure

Make an Atomic Model...but It Can't Be an Atom

Your job is to construct a model of an atom, but it cannot be in the traditional form. Consider making an analogy, like bees buzzing around a hive or airplanes circling a control tower. Illustrate or build a model that represents the important components of an atom in an original way.

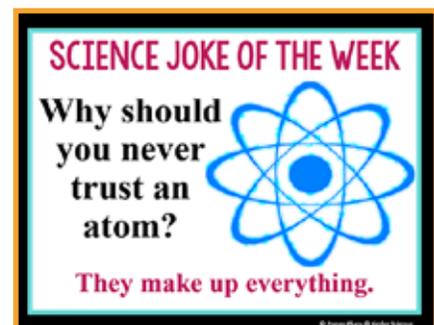
Your model should include the following points:

- Protons and neutrons are in the nucleus
- Electrons orbit the nucleus in clouds
- Protons and electrons have opposite charges
- The number of protons and electrons (in an uncharged atom) is the same

Materials: paper, coloring materials, modeling clay, scissors, simple art supplies

## Bellringers

- 40 Weekly sets
- Each week includes journaling, discussion prompts, science quotes, science jokes, and new vocabulary



**SCIENCE JOKE OF THE WEEK**

Why should you never trust an atom?

They make up everything.



# Lesson Enhancements

## Project-based learning, phenomena, and more!

### Game Boards

- Make unit reviews and small groups fun!
- Printable board and detailed teacher directions
- Multiple choice or open-ended questions



### STEM Challenges

- Hands-on, student-led project choices
- Flexible materials
- Great for non-traditional summative assessment or end-of-year after testing



### WIKI Tickets©

- Quick, fun formative assessments
- Project on-screen or hand out
- Gauge student mastery before moving on to new activities



# Cross-Curricular Activities

ELA and math integration made simple.

## Science Reading Comprehension Passages

- 200+ engaging, differentiated articles with comprehension questions and mini-projects
- Increase science literacy and expand science concepts



## Writing Prompt Activities

- Fun and engaging prompts include song-writing, essays, poetry, and much more!
- Expand student literacy and improve communication skills



## Graphs, Charts, & Tables – Weekly Visual Data

- Use daily or weekly
- Build graphing skills with phenomenon-based connections

Graphs – Charts – Tables  
WEEKLY VISUAL DATA

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Part One: Phenomenon

One week on a good day, ranging from with low tides, the sea level is up to the highest approximately 80% of the moon is visible. She started to record the moon visible over the course of the week. In the last night, she noted that approximately 75% of the moon was visible.

1. What do you know about this phenomenon?
2. What topic could a scientist study in these fields?
3. What kind of data could scientists collect from these fields?



Part Two: Visualizing Data

1. How could the data below be entered in the phenomenon of the light, and discussed?
2. After additional information can be added to the list of what we know?
3. Identify the key parts of the table.

Percent of Moon Visible	
Date	Percent of Light
July 3, 1993	80%
July 4, 1993	100%
July 5, 1993	75%
July 11, 1993	45%
July 18, 1993	25%
July 25, 1993	2%

# Go Beyond the Lesson

## Sub Plans

- 40 low-prep, standards-aligned plans with sub instructions
- Self-contained lessons with multiple activities to keep students on-task



## Classroom Posters

- Humorous sets to inspire curiosity, lab safety, and seasonal fun
- Multiple display options with a poster per week to last the school year



## End of Year Awards

- Inspire students by seeing the best in them!
- 100 award titles based on science concepts or famous scientists
- Both print and digital versions available



# Steve Spangler!

**Science education got an upgrade when Spangler and Kesler teamed up!**



**Steve Spangler is a best-selling author, educator, and Emmy award-winning science communicator who makes science fun.**

## **Spangler Phenomenon**

- Includes exclusive videos created by Steve Spangler for Kesler Science
- Engages student analytical skills with hands-on investigations

## **STEM Starters**

- Activity sheets that pair with Steve Spangler's popular videos
- Differentiated activities for Early Ed through 8th grade

## **Spooky Science**

- Keep the science learning going for Halloween!
- Includes an assembly video, hands-on labs, and teacher-led Halloween demos

# The Ultimate Year End Review



## Lone STAAR Launch

Review for the 5<sup>th</sup>  
or 8<sup>th</sup> grade science  
STAAR test with  
student-led stations  
and exciting  
escape rooms!



*“This is by far the best STAAR review I have used in my classroom. My students were engaged the whole time and enjoyed each activity...Early returns say it was a HUGE success.”*

– Kendall Z.



# 365 DAYS OF SCIENCE PD

# STARS

## SCIENCE TEACHERS ARE ROCK STARS

### **The Ultimate Flexible PD Source for Science Teachers**

- Premium Bundle: 5 hours of LIVE streaming - your choice from 10 sessions - plus Steve Spangler's Everyday STEM sessions and ALL the recorded options below.
- Recorded New Teacher Orientation: 10 sessions for new and new-to-science teachers
- Recorded Virtual Conference: 16+ hours of pre-recorded, on-demand conference sessions from a diverse group of professional educators, authors, and scientists
- All options include six LIVE streaming PD sessions with Steve Spangler
- Download and print individual certificates of completion

**Approved TEA CPE provider**



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