

BC SRC 2018: Motion Commotion!

Program (Ages 9-12), Theme 5: Blast Off!

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PROGRAM OUTLINE

Name Tags	5 Min
Intro	5 Min
Activity	15 Min
Snack	10 Min
Craft/Activity	15 Min

10 minutes left out for transitions, jokes, facts, and flexibility

NAME TAGS

Ask the group or tweens to write out their name and write out/draw their favourite Space/Time Travel show/book. Have colouring and drawing supplies as well as blank labels for the teens to work on name tags. Names tags will help the children connect with each other and make new friends, while providing a simple task to complete as everyone arrives (secret icebreaker).

INTRO

Ask everyone about favourite shows, comics and books. If you have a movie license consider showing a couple clips of time travel / space movies before starting. Talk about the concept of **time travel** by mechanical means, which became popular after in H. G. Wells' wrote the 1895 story, **The Time Machine**.

DISCUSSION IDEAS

Time travel - If it became a reality what would be the best method – wormholes, stargates, time machines (type). When in time would you travel? Butterfly effect?

Space travel – When will man reach mars, live on mars, coolest spaceship from science fiction

ACTIVITIES

1. **Balloon Rocket** <https://sciencebob.com/make-a-balloon-rocket/>

Supplies needed:

- Balloons, string, straws, scissors, tape

This activity demonstrates the power of wind/air, while letting you design and make awesome rockets. Put a straw on a string and tape the two ends of the string 10 ft apart (chairs work good) (this could be done in advance to save time. Blow up a balloon and tape your rocket to the straw. When you let go it will propel the rocket across the room on the string. Cut off the balloon from the string and let the next kids have a turn. Multiple spots and volunteers needed to make this succeed. **Alternately, you could make this into a demonstration during the program.**

Balloon Rocket Video <https://www.youtube.com/watch?v=N6NIgPIh7HU>

2. Baking Soda Rockets – Outdoor Activity

Supplies needed:

- Baking soda, vinegar, water bottles, corks, duct tape, pencils, toilet paper and funnels

A fun out of this world program that can be fun and interesting for students to experiment with safe chemical reactions.

Baking Soda Rockets Video and Guide <http://theinspiredhome.org/baking-soda-bottle-rockets/>

3. Moon Landing – group discussion on what you need on the moon to survive.

Have the group split into smaller groups and then have them come up with what they think they need to survive.

Moon Landing Activity

<http://insight.typepad.co.uk/insight/2009/02/moon-landing-a-team-building-game.html>

SNACK

Space Drink

<https://www.themaven.net/kidsactivities/celebrate/halloween-party-drink-fog-drinks-9lZwBO3ZJUST835An-3rZA?full=1>

- A chip or two of food-grade dry ice, available online or at grocery stores, will get any drink smoking and bubbling so much that it will look out of this world.

Or

Fruity Rockets (right)



RESOURCES

The Story of Space: A First Book about Our Universe By Catherine Barr

Garbage in Space: A Space Discovery Guide By Margaret J. Goldstein

Exploring Space: From Galileo to the Mars Rover and Beyond By Martin Jenkins

Private Space Travel: A Space Discovery Guide By Margaret J. Goldstein

International Space Station: An Interactive Space Exploration Adventure By Allison Lassieur

Lost in Outer Space: The Incredible Journey of Apollo 13 By Tod Olson

Outlaws of Time – The Legend of Same Miracle By Nathan D. Wilson

StarTalk With Neil DeGrasse Tyson: Everything You Ever Need to Know about Space Travel, Sci-fi, the Human Race, the Universe, and Beyond By Neil deGrasse Tyson

Zita the Spacegirl 1, Far From Home by Ben Hatke

A Wrinkle in Time by Madeleine L'Engle