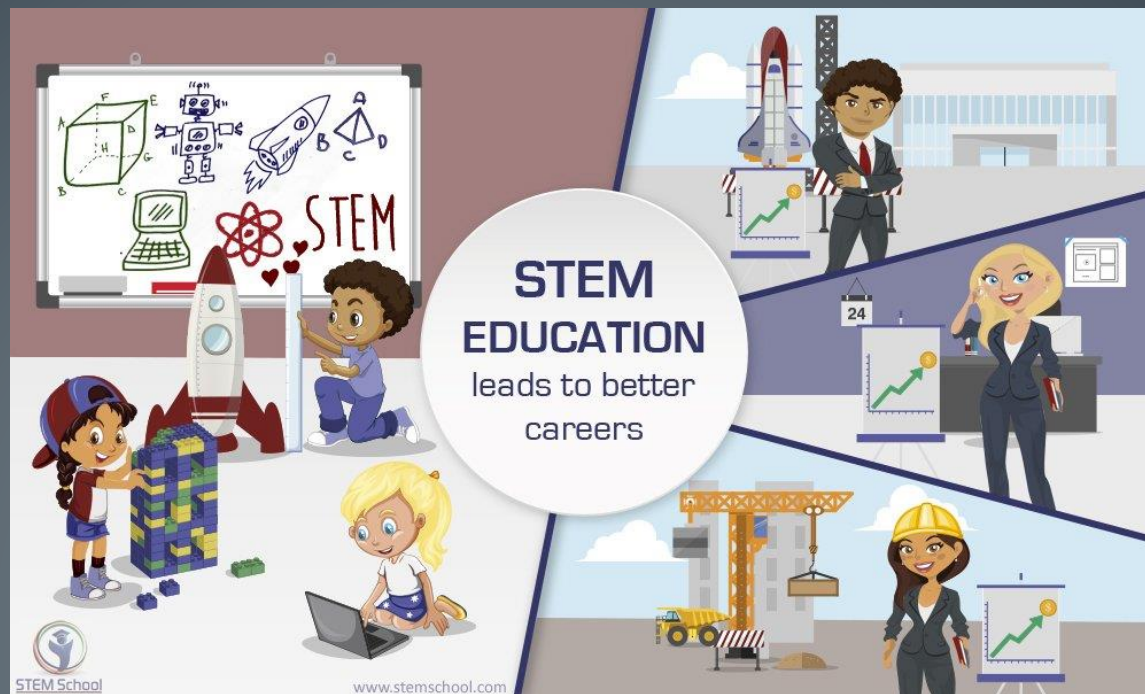


# STEM U KNJIŽNICI : razvoj kreativnog mišljenja



Dragica Pršo, prof. i dipl.bibl.  
OŠ Monte Zaro Pula  
stručna suradnica savjetnica

# Što je STEM?



- STEM (engleski : akronim od početna slova 4 područja: Science, Technology, Engineering i Mathematics, 2001. dr. Judith Ramaley)
- termin vezan uz američki obrazovni sustav, ali i gospodarstvo
- Budući studenti PMF-a i FER-a
- Interdisciplinarni pristup
- <http://www.stemschool.com/articles/what-is-stem-education/>

# STEM u knjižnici : knjižnično-informacijsko područje

## ZAŠTO?

- jer već pružaju kvalitetni obrazovni program
- posvećene su spajanju ljudi s pouzdanim informacijama
- mjesto su kreativnog istraživanja
- pružaju slobodne i vođene aktivnosti

## KAKO?

- prilagodbom sadržaja
- Interdisciplinarnim pristupom, radionicama, terenskom nastavom predavanjima vanjskih suradnika



# STEM IN LIBRARIES

We're Scientists... Library Scientists

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## Week Fifty-Six: STEAM Storytime: Animals!

[Leave a comment](#)

March 12, 2016 by libraryheather

**Program Title:** STEAM Storytime: Animals!

**Target Age Range:** Ages 3-6 with a caregiver

**Program Length:** 60 minutes

**Brief Description:**

Half-storytime, half-lab in which we explore



## Contact Us

We are a team of librarians with a passion for creating fun and engaging STEM programs for library patrons of all ages.

Have a question? We love helping out! Send us an email at:  
[steminlibraries@gmail.com](mailto:steminlibraries@gmail.com)

## Tags

Adult Variation [Ages 3-6 All](#)

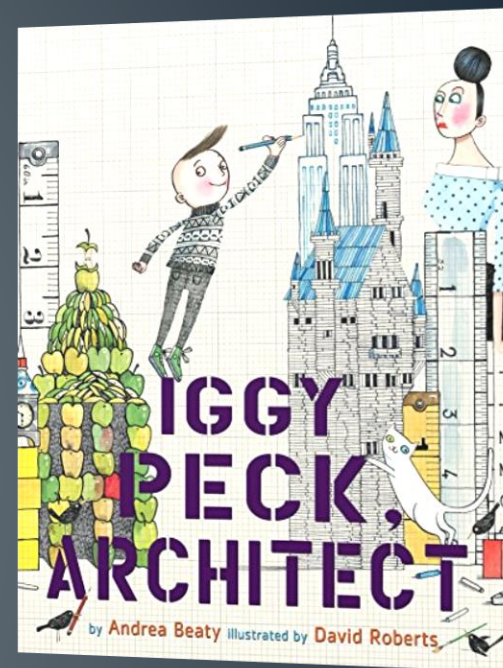
# ZNANOST

- Storytime: **animals** – Vrijeme za priču: životinje
- Optical illusions – Optičke iluzije
- Microbes - Mikroorganizmi
- Sound - Zvuk
- Let's be paleontologists – Paleontolozi
- Find out why the sky is blue – Zašto je nebo plavo?
- Learn about color mixing when you make water walk! – Saznajite o miješanju boja
- Simple physics – Jednostavna fizika
- Word wonders – Čuda od riječi
- Movie makers – Filmaši



# INŽENJERSTVO

- [Paper airplane science](#) – Znanost o papirnatim avionima
- [Beam & Suspension Bridges](#) – Viseći mostovi
- [Build with straws and tape](#) – Gradi uz pomoć slamke i selotejpa
- Learn about [bridges](#) and then build your own –
- Nauči o mostovima te sagradi svoj
- Test the strength of a [piece of paper](#) – Testiraj snagu lista papira

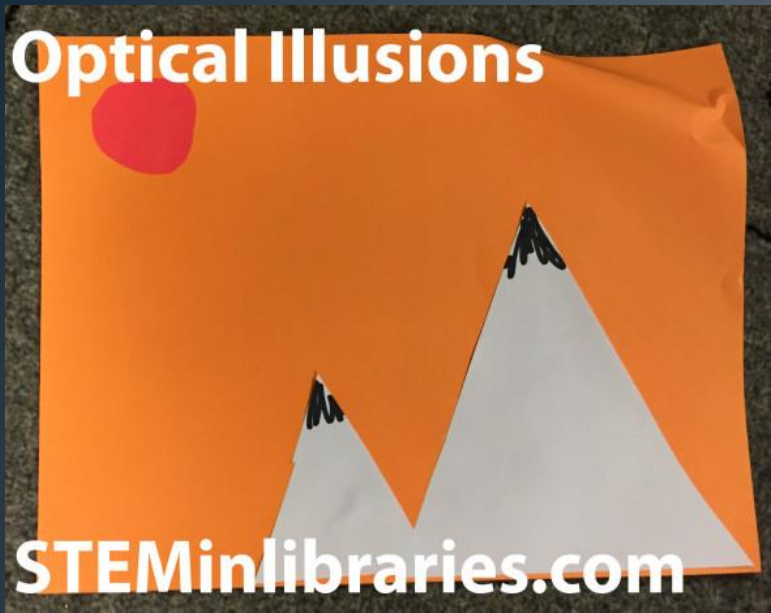


# MATEMATIKA

- [Pi-day](#) – Dan broja Pi
- [Work on coin values and adding](#) – Nauči vrijednost novca i zbrajanja
- [2D shape hunt](#) – U potrazi za oblicima



# Optical Illusions



[STEMinlibraries.com](http://STEMinlibraries.com)

# Aerodynamics: Paper Airplane Science!



[STEMinlibraries.com](http://STEMinlibraries.com)

# Sound



[STEMinlibraries.com](http://STEMinlibraries.com)



S.T.E.M. CHALLENGE

Which paper column can hold up the most books?





# Aerodinamika – znanost o papirnatim avionima

- Ciljana skupina: od 1. – 3. razreda
  - Učenici istražuju aerodinamiku izrađivanjem papirnatih aviona.
1. Zašto papirnati avioni lete? Objasniti aerodinamiku.
  2. izraditi papirnate avione prema pripremljenom predlošku
  3. testirati avione/ organizirati natjecanje u razredu i između razreda

# Tom Wujec – Sljezov izazov

[https://www.youtube.com/watch?v=Dlt1o30e9\\_E](https://www.youtube.com/watch?v=Dlt1o30e9_E)



TomWujec\_2010U-480p-hr.mp4

