Webinar „STEM and Reading Aloud“
Linking STEM and Language: Volunteer Readers
What is STEM?

Science +++ Technology +++ Engineering +++ Mathematics

STEM
Volunteer readers...

... pass on their enthusiasm for books.

... offer occasions to speak.

... arouse topic-related interest.

... discover basic literary and scientific approaches with the children.

... have a long lasting positive impact on the topics books and reading.
„Sage es mir, und ich vergesse es.
Zeige es mir, und ich erinnere mich.
Lass es mich tun, und ich behalte es.“

—

"Tell me and I will forget,
show me and I may remember,
involve me and I will learn."

Confucius
Children learn...

... by their own doing.
... through their own experience.
... through communicating.
... when they enjoy doing sth.
... from adults who don`t know everything better than them. ☺

➔ The playful mediation of STEM basics relies on the child’s curiosity!
Children’s questions

Why do ladybugs have spots?

Why is a banana bent?

Why is the sky blue?

Who lives on the moon?

Why do I have to eat vegetables?

Why does the bread always fall buttered side down?

How are images transmitted into television?

Why do leaves change colour?
The practice of reading aloud

1. Opening ritual – as a recognizable beginning of the reading aloud session!
2. The dialogic principle
3. Significance of rituals and regularity
# Reading aloud – Dos and Don’ts

<table>
<thead>
<tr>
<th>Presentation/Lecture</th>
<th>Explore the text together</th>
</tr>
</thead>
<tbody>
<tr>
<td>Block questions while reading</td>
<td>Interact while reading</td>
</tr>
<tr>
<td>Stick to the text</td>
<td>Shortening, mix of reading aloud and storytelling</td>
</tr>
<tr>
<td>Too quiet, too fast, too monotone, without breaks</td>
<td>Loud, slowly, lively, with breaks after units of meaning</td>
</tr>
</tbody>
</table>
Reading aloud and follow-up activities

- discovering the world of numbers
- experimenting
- investigating
- constructing and building
- coloring and crafting
- writing and documenting

Reading unit
Reading aloud and follow-up activities

- **experiments**
  - Simple, quick to perform and as spectacular as possible!

- **coloring and crafting**
  - Simple material, arrange details with the institution!

- **constructing and building**
  - Use existing (play-)material
Reading aloud and follow-up activities

Safe research with kids search engines

- www.kidzsearch.com
- www.squirrelnet.com
- www.kidrex.com

Create an understanding for the world of numbers
Non-fiction (picture) books
Stories and picture books

Satomi Ichikawa

Das Tomatenfest

Jo Nesbø

Doktor Proktors Papspulver
Digital options for reading aloud sessions

Petterssons Erfindungen, Oetinger Media

Die kleine Raupe Nimmersatt und ihre Freunde, StoryToys
Digital options for reading aloud sessions

Mein Raumschiff, urbn pockets
Reading aloud and follow-up activities / examples

You don’t necessarily need STEM books...

... for STEM activities!
Reading aloud and follow-up activities / examples

Suspense creates attention!

Activity idea: Animal Profiles
Reading aloud and follow-up activities / examples

Brainteasers always work!

Activity idea 1: egg size comparison and classification

Activity idea 2: How fresh is the egg?
Almost every child loves infamous stuff!

Activity idea: Scientific flatulences
Develop your own activity ideas

What is this book / story about?

Which part of the content / topic could be strengthened?

When do activities fit best: in the beginning, while telling the story or in the end?

What other books or material do I need?
<table>
<thead>
<tr>
<th>Autor</th>
<th>Titel</th>
<th>Verlag</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catherine Rayner</td>
<td>Agathe zählt die Sterne</td>
<td>Knesebeck</td>
<td>9783868737981</td>
</tr>
<tr>
<td>Adrienne Barman</td>
<td>Walross, Spatz und Beutelteufel</td>
<td>Aladin Verlag</td>
<td>9783848900909</td>
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<tr>
<td>Gudrun Schury/Moni Port</td>
<td>Lumpi, Lampe, Luftballon – Das Dingebuch für Alltagsforscher</td>
<td>Klett Kinderbuch</td>
<td>9783954701377</td>
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<tr>
<td>Heidi Trpak</td>
<td>Willi Virus – Aus dem Leben eines Schnupfenvirus</td>
<td>Tyrolia</td>
<td>9783702234867</td>
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<tr>
<td>Deborah Kespert</td>
<td>Erfinder – Die großartigsten Genien aller Zeiten</td>
<td>moses</td>
<td>9783897778276</td>
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<tr>
<td>Satomi Ichikawa</td>
<td>Das Tomatenfest</td>
<td>Moritz</td>
<td>9783895652561</td>
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<tr>
<td>Jo Nesbø</td>
<td>Doktor Proktors Pupspulver</td>
<td>Arena</td>
<td>9783401063041 (Band 1)</td>
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<tr>
<td>Fred Paromuzzi</td>
<td>Otto findet was</td>
<td>NordSüd</td>
<td>9783314103339</td>
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<tr>
<td>Gianna Marino</td>
<td>Pssst! War da was?</td>
<td>Ravensburger</td>
<td>9783473446766</td>
</tr>
<tr>
<td>Erhard Dietl</td>
<td>Das geheime Olchi-Experiment</td>
<td>Oetinger</td>
<td>9783789133107 (Band 1)</td>
</tr>
<tr>
<td>APP</td>
<td>Petterssons Erfindungen deluxe</td>
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Thank you for your attention!

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