

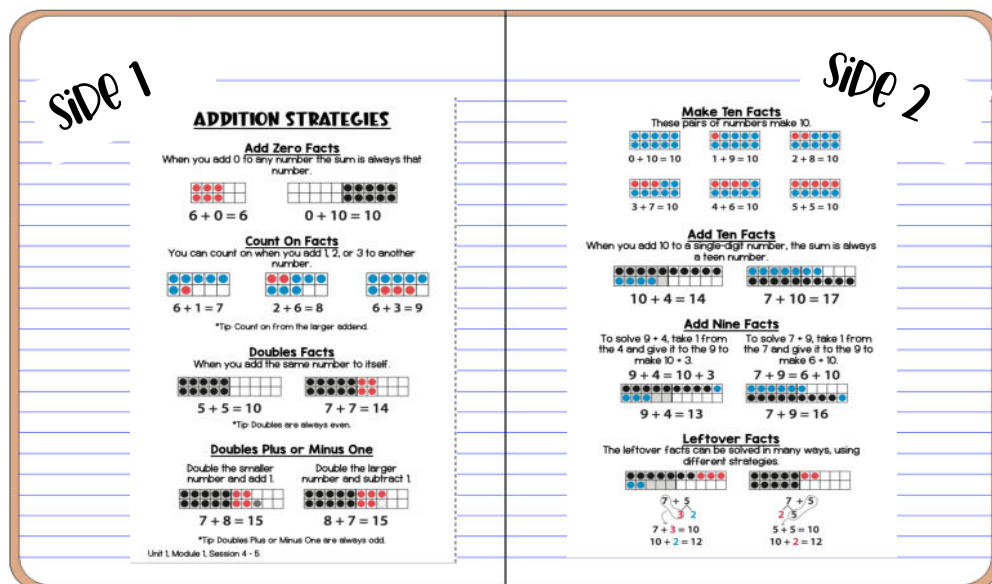


BRIDGES 3RD GRADE
UNIT 8

Student Notebook/Journal Pages

TEACHER NOTES:

- This file contains student notebook pages for Bridges Grade 3 Math, Unit 8.
- These pages were designed to help differentiate based on student needs and allow students to go back and review key concepts.
- These pages are made to fit in any size notebook (composition or spiral). Simply cut on the dotted line and glue on necessary pages inside notebook.



Note: If you want to fit the whole page on a single notebook page, you will need to either print 2 copies per page OR scale the page down to 80%.

Fonts Used:

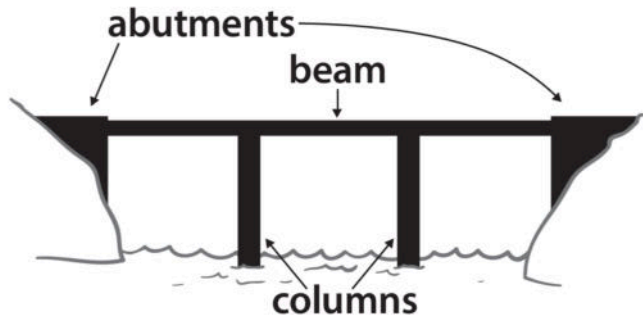
Headings: **AG ADULTISH**

Definitions: AG Lazy Level Expert Bold



BEAM BRIDGE

beam bridge



a bridge that consists of a beam supported by columns

Real World Examples



Aizhai Beam Bridge, China



The Great Belt Bridge, Denmark



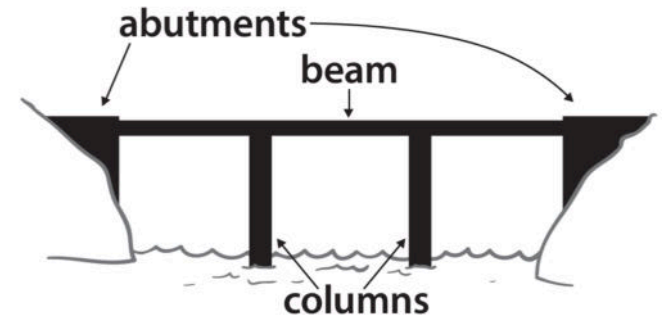
The Confederation Bridge, Canada



Hong Kong-Zhuhai-Macau Bridge, Hong Kong

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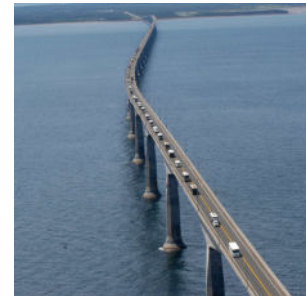
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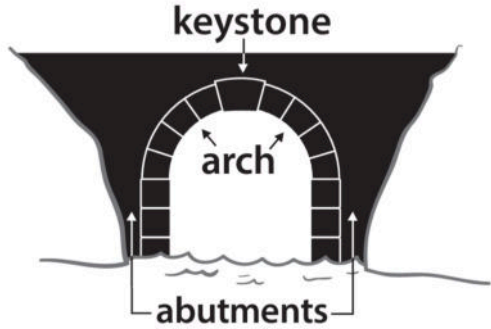
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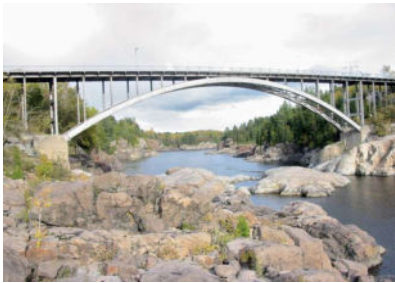
ARCH BRIDGE

arch bridge



a bridge that consists of an arch stabilized by abutments on either side

Real World Examples



Arvida Bridge, Canada



Stone Arch Bridge, Minnesota



The Pont du Gard Bridge, France

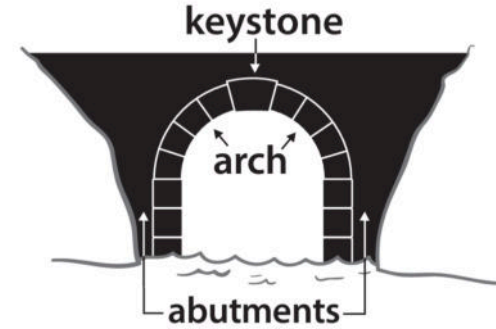
"Bridge from Harry Potter Train"



The Glenfinnan Viaduct, Scotland

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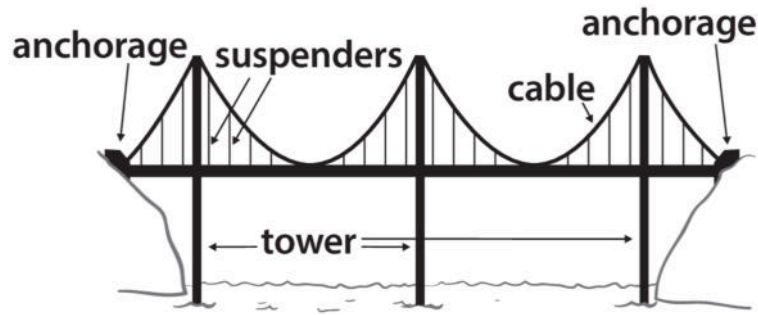
"Bridge from Harry Potter Train"



The Glenfinnan Viaduct, Scotland

SUSPENSION BRIDGE

suspension bridge



a bridge that consists of a beam suspended from cables and suspenders extending between towers

Real World Examples



The Golden Gate Bridge, California



The Clifton Suspension Bridge, England



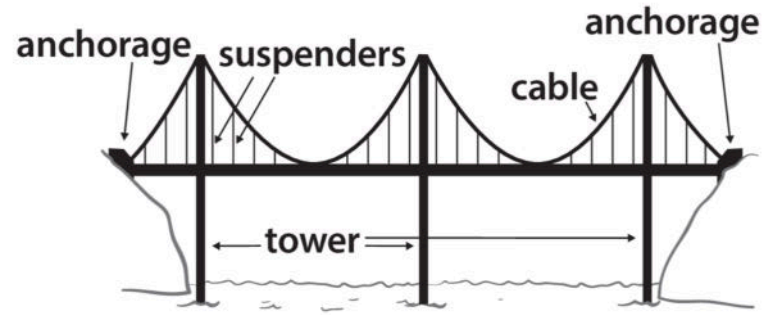
Akashi Kaikyo Bridge, Japan



Yavuz Sultan Selim Bridge, Turkey

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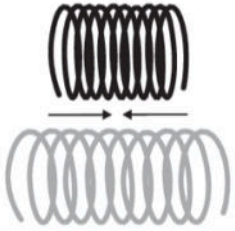


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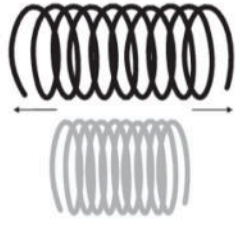


Yavuz Sultan Selim Bridge, Turkey

BRIDGE VOCABULARY



compression: a pressing force



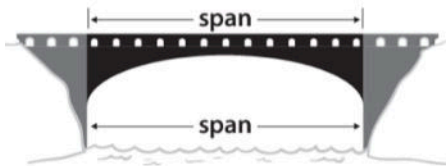
tension: a stretching force



truss: a framework of beams designed to support a structure, such as a bridge

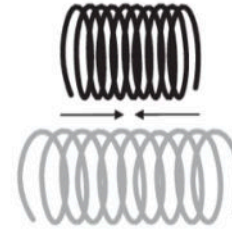


anchorage: the point at which a bridge is secured to land (in a suspension bridge, the cables are attached to the anchorages)

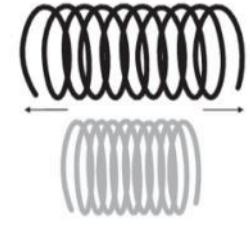


span: the section between two supports of a bridge (the span may extend from one abutment to the other with no supports in between, or it may span from one intermediate support to another)

BRIDGE VOCABULARY



compression: a pressing force



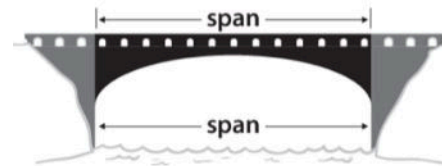
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SUSPENSION BRIDGES CHART

Design Features	Materials Used	Examples	Other Information

SUSPENSION BRIDGES CHART

Design Features	Materials Used	Examples	Other Information

OUR GUIDELINES FOR BRIDGE BUILDING

- Work together with teammates
- Let everyone explain their ideas
- Talk respectfully and quietly
- Ask each other questions
- Make compromises with teammates
- Everyone can build the bridge together
- Look at what other people are doing to get ideas, but don't copy other teams' work
- Keep work areas neat and clean up when the bridge is finished
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STRENGTH TRIAL RESULTS

Team	Materials Used	Type of Bridge	Grams Held

STRENGTH TRIAL RESULTS

Team	Materials Used	Type of Bridge	Grams Held

LENGTH TRIAL RESULTS

Team	Materials Used	Type of Bridge	Length	Deck Thickness

LENGTH TRIAL RESULTS

Team	Materials Used	Type of Bridge	Length	Deck Thickness

LONGEST, STRONGEST BRIDGE JOURNAL ENTRY

1. Drawing:

2. List of shapes:

3. List of materials:

4. List of measurements:

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FINAL BRIDGE TRIAL RESULTS

Team	Materials Used	Type of Bridge	Length	Load Limit

FINAL BRIDGE TRIAL RESULTS

Team	Materials Used	Type of Bridge	Length	Load Limit