

Acces PDF
Bridges And
Tunnels
**Bridges
And
Tunnels
Investigate Feats
Of Engineering
With 25 Projects
Build It Yourself
Investigate
Feats Of En
gineering
With 25
Projects**

Acces PDF

Bridges And

Build It

Yourself

The railway tunnel,
or Chunnel that
whisks millions of
passengers and
vehicles between
England and
France is an
engineering
miracle. Built deep

Acces PDF

Bridges And

Tunnels

under the English

Channel with

massive tunnel

boring machines

the Chunnel is the

longest undersea

tunnel in the

world—and one of

history's most

fascinating

construction

projects.

Correlates with

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Bridges And

Tunnels

STEM instruction.

Includes glossary,

websites, and

bibliography for

further reading.

The 21st Century

Junior Library

Extraordinary

Engineering series

explains how

important feats of

engineering are

accomplished.

Acces PDF

Bridges And

Tunnels

Bridges examines the engineering concepts that make these critical structures possible. Sidebars encourage readers to engage in the material by asking deeper questions or conducting individual research. An

Access PDF

Bridges And

Tunnels

activity, full color photos, a glossary, and a listing of additional resources all

enhance the learning experience.

Infrastructure is something that we use every day, like roads, bridges, and tunnels, but

Access PDF
Bridges And
Tunnels
probably never
Investigate Feats
think too much
Of Engineering
about. However, in
With 25 Projects
the United States,
Build It Yourself
many parts of the
country's
infrastructure are
old, falling apart,
and desperately
need repair and
upgrading.
Tunnels especially
are vital to

Acces PDF

Bridges And

Tunnels

transportation, and
extremely

dangerous when

they collapse. This

book explores

eight tunnels of

different types that

are lifelines for

transportation in

the US, but are

now at risk.

Whether its

Boston's Big Dig,

Acces PDF

Bridges And

Tunnels

the twin railroad tunnels under the Hudson River,

California's Hetch Hetchey water

system, or a rail tunnel in Baltimore that's more than 100 years old,

these tunnels are very important to the entire country.

Without

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Bridges And

Tunnels

emergency repairs
and expansion,
these tunnels
could fail, with
catastrophic
results.

Get your science
groove on, and
check out these
awesome
engineering
projects: Tie-dye t-
shirts made with

Acces PDF

Bridges And

Tunnels

markers, Jewelry

made from old

CDs, A s'mores

cooker powered by

the sun.

Engineering is

easy when you're

having this much

fun!

Infrastructure of

America's Bridges

Tunnels

Investigate Feats

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Bridges And

Tunnels

of Engineering

Investigate Feats
Crossing Literacy

Of Engineering
Bridges

With 25 Projects
Build It Yourself

of Engineering

with 25 Projects

Explores the

engineering

challenges behind

building tunnels, as

well as the creative

solutions found to

Acces PDF

Bridges And

Tunnels

overcome those challenges.

Investigate Feats Of Engineering

With 25 Projects Build It Yourself

Accessible text, vibrant photos, and an engineering

activity for readers

provide a well-

rounded

introduction to the

engineering

process.

Bridges have

Acces PDF

Bridges And

Tunnels

*helped people
cross large bodies
of water for
millennia. Readers
discover the*

*engineering behind
bridges.*

*In this informative
book, readers dig
into the history of
tunnels and
expand their*

Acces PDF

Bridges And

Tunnels

cultural awareness

as they explore

famous tunnels

across the globe.

They'll also

discover other

technologies that

play a role in

tunnels, such as

the invention of

dynamite and

ancient aqueducts!

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Bridges And

Tunnels

Record-breaking tunnels will amaze even reluctant readers, and stunning

photographs

illuminate key

concepts. The

concluding

engineering activity

will give readers

the chance to

Acces PDF

Bridges And

Tunnels

*apply their
knowledge through
hands-on
construction. This
versatile work*

explains the

historical

importance and

science of tunnels,

helping readers

understand

connections

Acces PDF

Bridges And

Tunnels

*between subject
areas.*

Investigate Feats

Of Engineering

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Build It Yourself

The 21st Century

Junior Library

Extraordinary

Engineering series

explains how

important feats of

engineering are

accomplished.

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Bridges And

Tunnels

Tunnels examines the engineering concepts that make these important

structures

possible. Sidebars encourage readers to engage in the material by asking deeper questions or conducting

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Tunnels

individual

research. An

activity, full color

photos, a glossary,

and a listing of

additional

resources all

enhance the

learning

experience.

Strategies to

Collaborate with

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Bridges And

Tunnels

*Families of
Struggling Readers
Understand the
Beliefs and
Practices of Islam*

Collaborative

Lesson Plans, K-5

An Interactive

Engineering

Adventure

Teaching STEM

and Common Core

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Bridges And

Tunnels

with Mentor Texts:

Collaborative

Lesson Plans, K–5

Explores the

engineering

challenges behind

building briges, as

well as the creative

solutions found to

overcome those

challenges.

Accessible text,

vibrant photos, and an

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Bridges And

Tunnels

engineering activity
for readers provide a
well-rounded

introduction to the
engineering process.

Specialized
construction jobs are
one of the brightest
spots in the job
market. This book
lays out what
qualifications and
training are necessary
to get a job installing

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Tunnels

sheet metal or doing ironwork. Discover exactly what each job entails, as well as what kinds of tools and machinery are commonly used.

Readers will learn how to write a résumé, get interview tips, and come to understand the importance of apprenticeships in

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Bridges And

Tunnels

high-skill construction fields. This is a great resource for teens trying to figure out what career they are interested in, as well as for anyone with an interest in how metal is used in today ' s buildings, bridges, and more.

A valuable, one-stop guide to collection development and

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Tunnels

finding ideal subject-specific activities and projects for children

and teens. • Provides an excellent resource for libraries

considering creating makerspaces • Helps educators locate

instructions for entertaining and educational program and curricular activities that range

Access PDF

Bridges And

Tunnels

from cooking and e-drawing to performing

magic tricks, solving

puzzles, mask-

making, and outdoor

games • Utilizes a

subject heading

organization and

indexes multi-topic

titles by chapter for

ease of use • Supplies

plans targeted for

distinct age ranges:

lower elementary

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Bridges And

Tunnels

(K–3rd grade),
elementary (3rd–6th
grade), middle school
(6th–9th grade), and
high school (9th grade
and above) • Includes

an appendix
containing additional
online sources of
information that
augment the book's
content

In this unique
guidebook, the reader

Acces PDF

Bridges And

Tunnels

is invited to take a
tour of the bridges of
the Pacific Northwest
and meet the friendly
monsters who live
under them.

The Golden Gate
Bridge

Investigate Feats of
Engineering With 25
Projects

Infrastructure of
America's Tunnels

Read Along or

Access PDF

Bridges And

Tunnels

Enhanced eBook

Investigate Feats
Monsters Under

Bridges
Of Engineering

With 25 Projects
Build It Yourself

Through simple
text and

informative

photos, readers

will engage with

this cornerstone

of transit

infrastructure.

Each chapter will

Access PDF

Bridges And

Tunnels

focus on a new aspect of tunnels, such as the history of their invention, technological advances in their materials and designs, and examples of their use both in ordinary life and extraordinary

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Bridges And

Tunnels

situations. A follow-up activity challenges readers to put into practice what they have learned.

A manual of past times, which includes

instructions for making kites, fishing poles, a

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Bridges And

Tunnels

blow gun, boats,
and theatrical
costumes, and for
raising dogs,
stuffing animals,
stocking an
aquarium, and
camping. Contains
small sections on
recreational mind-
reading and
fortune-telling.

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Bridges And

Tunnels

This title explores and explains how the Golden Gate Bridge was built.

The bridge's construction is described in terms of the engineering process. The book explores why the bridge was built and describes the

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Bridges And

Tunnels

design stages and
technologies used
during

construction. The
book also

describes the

challenges

builders faced

while building the
bridge.

Where does your
trash go when you

Acces PDF

Bridges And

Tunnels

throw it away?

Investigate Feats

Find out in

Of Engineering

With 25 Projects

Build It Yourself

the Path of Your

Trash with Science

Activities for Kids!

Middle schoolers

will track their

trash as it travels

from waste basket

to its final resting

place, whether

Acces PDF

Bridges And

Tunnels

that's a landfill,
compost bin, or a
new life as a
different product.
Essential

questions, fun

facts, and hands-

on STEM

experiments make

this book a fully

immersive

learning

Access PDF

Bridges And

Tunnels

experience!

Investigate Feats
Of Engineering

Follow the Path of

Your Trash with

With 25 Projects

Environmental

Build It Yourself
Science Activities

for Kids

Building the

Golden Gate

Bridge

With 25 Great

Projects

Bridges and

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Bridges And

Tunnels

Tunnels

Building Tunnels

They hover over rivers
and lakes and valleys

and railroad tracks and
even parts of oceans.

They can be beautiful
and they can be ugly.

But most of all, they
need to be safe. They
are the bridges of the
United States. And more
than 50,000 of them are

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Bridges And

Tunnels

in poor condition. Read all about American bridges in need of repair in this book. Learn about the ones that have collapsed and the ones that remain open despite remaining in bad shape. The interesting stories here gives readers a tour of bridges both famous and obscure around the United States.

Over centuries and

Page 40/108

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Bridges And

Tunnels

across cultures people
have defied gravity in a
quest to build the tallest,

grandest structures

imaginable. Skyscrapers:

Investigate Feats of

Engineering with 25

Projects invites children

ages 9 and up to explore

the innovation and

physical science behind

these towering

structures. Trivia and

fun facts illustrate

Acces PDF

Bridges And

Tunnels

engineering ingenuity
and achievements from
the ancient pyramids to

the Empire State

Building. Readers will
develop an

understanding of how
our modern,

sophisticated building
techniques and materials
evolved over time.

Activities and projects
encourage children to
explore the engineering

Access PDF

Bridges And

Tunnels

Investigate Feats

Of Engineering

With 25 Projects

Build It Yourself

design process. They will engage in hands-on explorations of wind, Newton's laws of motion, and experiment with the strength of different shapes. In the process they will learn about gravity, inertia, oscillation, and static electricity. Using various materials and engaging in trial and error, readers will construct their own

Access PDF
Bridges And
Tunnels
towers and skyscrapers.
Investigate Feats
Skyscrapers meets
Of Engineering
common core state
With 25 Projects
standards in language
Build It Yourself
arts for reading
informational text and
literary nonfiction and is
aligned with Next
Generation Science
Standards. Guided
Reading Levels and
Lexile measurements
indicate grade level and
text complexity.

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Bridges And

Tunnels

Canals and Dams:

Investigate Feats of

Engineering invites

children ages 9 and up to

explore the innovation

and physical science

behind the amazing

waterways and barriers

our world depends on.

Trivia and fun facts

illustrate engineering

ingenuity and

achievements from

ancient aqueducts to the

Acces PDF

Bridges And

Tunnels

Suez Canal and the Hoover Dam. Readers will discover that

engineers and builders alike put their lives on the line to advance

civilization,

experiencing triumphs and tragedies in building

big. Through dazzling success and

heartbreaking failure, they developed

increasingly

Access PDF Bridges And Tunnels Investigate Feats Of Engineering

sophisticated tools and building methods.

Activities and projects encourage children to explore the engineering process and to try, try again through trial and error. They'll engage in hands-on explorations of buoyancy, Newton's third law of motion, and forces that push and pull structures. They'll create a paper-cup zip line,

Acces PDF

Bridges And

Tunnels

build an arch, and
simulate a tsunami,

while experimenting

with gravity,

hydroponics, and

velocity. In Canals and

Dams: Investigate Feats

of Engineering, children

will gain an appreciation

for the important field

of engineering as they

develop their own

building skills.

Delve behind the scenes

Acces PDF

Bridges And

Tunnels

to look inside bridges,
tunnels and towers

around the world. Lift

the flaps to reveal the

mechanics and

engineering of

constructions including

the Channel Tunnel

connecting England and

France, the Burj Khalifa

in Dubai, the tallest

building in the world,

and many more.

Usborne are official

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Bridges And

Tunnels

partners of the Year of
Engineering 2018, a UK

government initiative to

inspire the next

generation of engineers.

With beautiful full-

colour illustrations and

fascinating details to

discover on every page.

Lift the flaps on each

illustration to reveal

layers of further

information.

Bunny Man Bridge

Page 50/108

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Bridges And

Tunnels

Success with STEM

Investigate Feats
Building Bridges

Ideas for the classroom,

STEM clubs and beyond

What Are You Grouping

For?, Grades 3-8

This book describes

five principles to

guide teachers in

working with

families of struggling

readers.

Bridges and

Acces PDF

Bridges And

Tunnels

Investigate

Feats of Engineering

with 25

Projects Nomad Press

"Learn all about

some of the world's

most incredible

bridges, from how

they are designed

and built to how

bridge technology

has changed over

time."--

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Tunnels

Kids explore the physical science, engineering, and innovation behind two major structures our world depends on.

What to Do and how to Do it

Explore

Makerspace!

The Chunnel

Millau Viaduct

Page 53/108

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Bridges And

Tunnels

Build It, Make It, Do

It, Play It! Subject

Access to the Best

How-To Guides for

Children and Teens

Success with

STEM is an

essential

resource,

packed with

advice and

ideas to support

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and enthuse all those involved in the planning and delivery of STEM in the

secondary

school. It offers guidance on

current issues

and priority

areas to help

you make

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Investigate Feats
Of Engineering
With 25 Projects
Build It Yourself

**informed
judgements
about your own
practice and
argue for
further support
for your subject
in school. It
explains current
initiatives to
enhance STEM
teaching and**

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offers a wide
range of

practical

activities to

support exciting
teaching and

learning in and
beyond the

classroom.

Illustrated with
examples of
successful

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**projects in real
schools, this
friendly,
inspiring book
explores:**

**Innovative
teaching ideas
to make lessons
buzz Activities
for successful
practical work
Sourcing**

Page 58/108

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**additional
funding Finding
and making the
most of the best
resources STEM**

**outside the
classroom**

**Setting-up and
enhancing your
own STEM club**

**Getting involved
in STEM**

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competitions,

fairs and

festivals

Promoting STEM

careers and

tackling

stereotypes

Health, safety

and legal issues

Examples of

international

projects An wide-

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Tunnels

Investigate Feats

Of Engineering

With 25 Projects

Build It Yourself

**ranging list of
project and
activity titles
Enriched by the
authors'
extensive
experience and
work with
schools, Success
with STEM is a
rich
compendium for**

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**all those who
want to develop
outstanding
lessons and
infuse a life-**

**long interest in
STEM learning
in their**

**students. The
advice and
guidance will be
invaluable for**

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**all teachers,
subject leaders,
trainee teachers
and NQTs.**

**Bridges and
tunnels are
lifelines. People
have tackled
seemingly
insurmountable
obstacles,
including vast**

Acces PDF
Bridges And
Tunnels
**canyons and
mountain
ranges, to
design and
construct these
amazing
passageways.
Bridges and
Tunnels:
Investigate
Feats of
Engineering**

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Bridges And

Tunnels

**invites children
ages 9 and up to
explore the
innovation and
physical science
behind**

**structures our
world depends
on. Trivia and
fun facts
illustrate
engineering**

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**ingenuity and
achievements.**

**Activities and
projects**

encourage

children to learn

about the

engineering

process and to

embrace trial

and error.

Bridges are a

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**big part of how
people get from
place to place.**

**But how do they
work and how
are they built?**

**In this engaging
text, readers
will explore
these important
engineering
marvels that**

Acces PDF
Bridges And
Tunnels
link places
Investigate Feats
divided by
Of Engineering
water. Along the
With 25 Projects
way they'll
Build It Yourself
learn how to
build their own
model bridge
with a step-by-
step guide
accompanied by
full-color
photographs of

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each step.

Accessible text

illuminates the

science behind

every span we

drive over and

sometimes

under!

Describes the

author's years

as a member of

the Islamic

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**faith, discussing
the varied
questions she
fielded from
others**

**regarding diet,
dress, prayers,
and holidays,
while providing
an introduction
to Islam that
examines its**

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Investigate Feats
Of Engineering
With 25 Projects
Build It Yourself

**traditions and
beliefs.
Cool
Engineering
Activities for
Girls
21st-Century
Tunnels
Zoom in on
Tunnels
Explore
Tunnels!**

Access PDF

Bridges And

Tunnels

**See Inside
Bridges, Towers
and Tunnels**

"Explores various perspectives on the process of building the Golden Gate Bridge. The reader's choices reveal the historical details"--
Tunnels allow people to cut through tall

Access PDF
Bridges And
Tunnels
mountains or even
travel deep
underwater.
Discover the
engineering behind
tunnels.

This book in the
Urban Legends:
Don't Read Alone!
series explores the
creepy history of the
Bunny Man Bridge
legend. Are you
brave enough to

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Tunnels

read it alone?

Written with a high
interest level to

appeal to a more

mature audience

and a lower level of
complexity with

clear visuals to help
struggling readers

along. Considerate

text includes tons of
fascinating

information and wild

facts that will hold

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Tunnels

the readers' interest,
allowing for

successful mastery
and comprehension.

A table of contents,
glossary with

simplified

pronunciations, and
index all enhance
comprehension.

It hovers more than
1,000 feet into the
sky. On foggy days,
it is like driving in

Acces PDF

Bridges And

Tunnels

the clouds. It is the

Millau Viaduct. And

it is perhaps the

most incredible

bridge in the world.

The beautiful

structure sits over

the Tarn River and

beautiful French

countryside. Learn

about the geniuses

that designed it and

how it was built.

Learn about how it

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has saved millions
of drivers a lot of

time and a lot of

money. Learn about

the tiny town of

Millau. Learn about

how the people

there have

embraced what is

now a famous

landmark. This book

gives readers

everything they

would want to know

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Bridges And

Tunnels

about a stunning structure that has hosted more than five million vehicles since it opened in 2004.

How a Bridge Is Built

Bridges

Fire Dogs

INVESTIGATE

FEATS OF

ENGINEERING WITH

25 PROJECTS

Page 78/108

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Bridges And

Tunnels

How to Guide Small

Investigate Feats
Groups Based on

Readers - Not the

Book With 25 Projects

You've created

a STEAM program

in your

library, but

how do you work

literacy into

the curriculum?

With this

collection of

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resource recomm

endations,

direction for

program

development,

and activities,

you'll have

students

reading

proficiently in

no time. •

Presents

complementary

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annotated books

and discussion

questions to

engage students

in STEAM topics

- Offers

topical project

and problem-

solving

activity ideas

for students in

the library

makerspace •

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Provides
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research and
additional
resources for
teachers and
librarians to
use in
implementing
successful
STEAM programs
Need to get to
the other side
of a city or

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lake? Sometimes

a bridge is the

way to go, and

sometimes a

tunnel is best!

In Tunnels!

With 25 Science

Projects for

Kids, kids ages

7 to 10 explore

the deep topic

of tunnels--the

engineering

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Bridges And

Tunnels

that goes into
designing them,

the way

engineers and

construction

teams work

together to

build them, and

the materials

used to ensure

the tunnels

don't cave in!

Readers learn

Access PDF
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all about
Investigate Feats
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Build It Yourself
activities that
reinforce
learning and
allow for
plenty of
discovery about
the engineering
design process,
simple

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machines, and
Investigate Feats
the laws of
Of Engineering
physics!
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use this book
to become
leaders in
their schools,
collaborating
with teachers
to keep them
abreast of
resources that

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will facilitate
Investigate Feats
the inclusion
Of Engineering
of STEM in the
With 25 Projects
curriculum. •
Build It Yourself
Offers five
library lessons
for each STEM
subject based
on a mentor
text and a
lesson for the
collaborating
teacher •

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Provides a
booktalk to
investigate Feats
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Build It Yourself
"Book Time"
section that
allows for
reading all or
parts of the
book
accompanied by
a general
discussion •

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Shows the range
of grades for
which each
lesson is most
suited and how
it can be
adapted •

Includes a
graphic
organizer (GO
Chart) with
each lesson, as
well as two

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Tunnels
options for
Investigate Feats
assessing the
Of Engineering
lesson
With 25 Projects
Build It Yourself
Bridges,
furniture,
musical
instruments,
games,
vehicles—all of
these things
were invented
and improved
upon by people

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Tunnels

who love to put

stuff together,

take stuff

apart, and

figure out how

things work! In

Explore

Makerspace!

With 25 Great

Projects,

readers ages 7

through 10

explore what it

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means to be an
engineer. They

discover how

inventors use

science, art,

and math to

create new and

exciting

structures,

games, and

more. Readers

also learn how

to set up their

Acces PDF

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own makerspaces

at home, using

inexpensive and

easy-to-find

supplies for

their tinkering
projects.

Humans have

been inventors

throughout

history. From

the wheel to

the rocket,

Acces PDF

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Tunnels

scientists and
other engineers
have designed
new

With 25 Projects

Build It Yourself

technologies
that have made
daily life
easier and
stretched our
horizons far
beyond our own
atmosphere. But
inventions

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Build It Yourself

don't have to
be full of
computer chips
or other
sophisticated
parts.

Designing the
fastest toy car
made from
recycled
materials can
be just as
thrilling!

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Makerspaces can
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be found in
Of Engineering
schools,
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libraries,
Build It Yourself
community
centers, and
homes all
around the
country. These
are places
where both
children and
adults can work

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and use the
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underground
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engineering and
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explains how it works
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in connection with
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