

Everything is planned for you!

Teacher planning page with objectives, fun facts, supply lists

Guiding questions (and answers) to help promote discussion

Teacher-Recommended Book List

Step-by-step directions for each activity

Language Board with detailed pictures

Planning Page - Nuts & Bolts
Engineering Unit - Lesson 3

Recommended Supplies:

- Nuts and bolts in different sizes
- Motor rods, such as from an Erector set
- Toy tool set
- Pieces of wood with pre-drilled holes

Learning Objectives:

- The students will identify a problem and develop a solution to it.
- The students will improve hand strength.

Guiding Questions - Nuts & Bolts
Engineering Unit - Lesson 3

What are some ways can you connect two pieces of wood?

- Glue
- Nails
- Screws
- Nut & Bolt

Why are there lines on the outside of the bolt and the inside of the nut?

Scientific Investigation - Nuts & Bolts
Engineering Unit - Lesson 3

Can you attach the nuts to the bolts?

Young children love "tinkering." This simple investigation with nuts and bolts will help develop both problem-solving skills and fine motor coordination.

Learning Objectives:

- The students will identify a problem and develop a solution to it.
- The students will improve hand strength.

Scientific Investigation - Nuts & Bolts
Engineering Unit - Lesson 3

Can you build the shape?

Recognizing and being able to construct shapes is a fundamental early math skill. Invite children to use the building pieces to create a masterpiece. No matter how simple or complex, they will be proud of their creation.

Learning Objectives:

- The students will identify a problem and develop a solution to it.
- The students will improve hand strength.

Book Recommendations - Nuts & Bolts
Engineering Unit - Lesson 3







The Toolbox
by Anne Rockwell

This story is a great way to activate prior knowledge in young children. Simple text and colorful illustrations show the many tools that are included in a household toolbox.

Screws, Nuts, and Bolts
by Sian Smith

Large print and simple text make this an ideal book for an early learner.

Nuts & Bolts Language Board

| | | |
|---|--|---|
|  nut |  bolt |  wrench |
|  washer |  twist |  build |



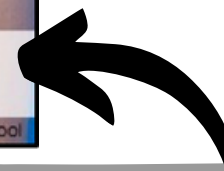
4 Full Color Resource Posters

Vibrant colors
to attract
students'
attention



A nut twists onto a bolt.

©Play to Learn Preschool



Clear, concise sentences
to reinforce the concept



STEM & Literacy

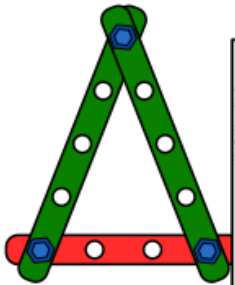
Create and Explore

Focus Question



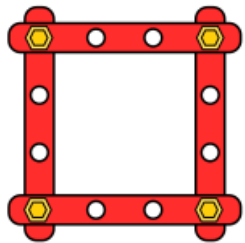
What can you build using nuts and bolts?

Can you make a



TRIANGLE?

Can you make a



SQUARE?



Vocabulary Tracing Cards



E.C.3

bolt



E.C.3

nut

nut



Nut & Bolt Vocabulary

a type of fastener that twists onto a bolt

E.C.3

bolt



Nut & Bolt Vocabulary

a tool used to attach things together

E.C.3

washer



Nut & Bolt Vocabulary

pieces that help hold nuts and bolts together

E.C.3

wrench



Nut & Bolt Vocabulary

a tool used to twist nuts and bolts

E.C.3

twist



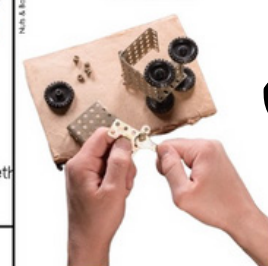
Nut & Bolt Vocabulary

to turn something

E.C.3

Vocabulary cards to hang around the science center

build



Nut & Bolt Vocabulary

to make something by joining together different parts

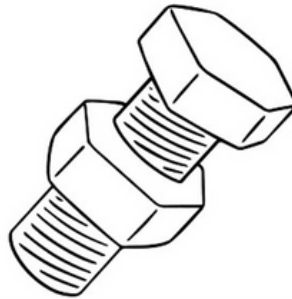
E.C.3

Student Mini-Books

Practice facts
learned in class

Black & White
2 copies/page

All About **Nuts & Bolts**



Name _____



Send home for
additional practice

Nuts and bolts

I can put my tools in the box.

I can build a box.

I can attach a nut to a bolt.

I can twist a bolt.

I can twist a nut.

I can use a wrench.

I can build with nuts and bolts.

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Looking for More Preschool Resources?

SAVE
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GROWING
Circle Time Bundle

Lifetime
Updates



<https://www.teacherspayteachers.com/Product/Preschool-Thematic-Units-Bundle-6747714>

Have fun playing and learning with your students!



Meet Jamie

Jamie is the founder and C.E.O of Play to Learn Preschool. She has her bachelor's degree in Early Childhood Education and a master's degree in reading education. She has taught in both public and private schools and works tirelessly to create meaningful and delightful preschool experiences for both her virtual and in-person preschool students.

Additional Resources:

