# Science KIT MODELS & DESIGNS

## 5th Grade FOSS

**Educational Materials Center Bibliography Series**

- **E-mail:** emc@tusd1.org
- **Phone:** 225-4783
- **Website:**

### BOOKS

<table>
<thead>
<tr>
<th>Call Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>011.62 On</td>
<td>Once Upon a GEMS Guide: Connecting Young People’s Literature to Great Explorations in Math and Science.</td>
</tr>
<tr>
<td>371.33 Id</td>
<td>Hands-on Technology.</td>
</tr>
<tr>
<td>372.35 And</td>
<td>Hands-On Engineering: Real-World Projects for the Classroom.</td>
</tr>
<tr>
<td>372.35 Eic</td>
<td>Activities Linking Science with Math 5-8.</td>
</tr>
<tr>
<td>372.5 Jo</td>
<td>Pop-up Paper Engineering: Cross-Curricular Activities in Design Technology.</td>
</tr>
<tr>
<td>372.7 In</td>
<td>Investigating Real Data in the Classroom: Expanding Children’s Understanding of Math and Science.</td>
</tr>
<tr>
<td>507 KI</td>
<td>The Exploratorium Guide to Scale and Structure: Activities for the Elementary Classroom.</td>
</tr>
<tr>
<td>507 Lo</td>
<td>Experiment Central: Understanding Scientific Principles through Projects.</td>
</tr>
<tr>
<td>507 To</td>
<td>To Build a House: GEMS and the Thematic Approach to Teaching Science.</td>
</tr>
<tr>
<td>507.1 Ad</td>
<td>Collaborative Inquiry in Science, Math, and Technology.</td>
</tr>
<tr>
<td>507.8 Wi</td>
<td>Rocket Science: 50 Flying, Floating, Flipping, Spinning Gadgets Kids Create Themselves.</td>
</tr>
<tr>
<td>510 Sp</td>
<td>S.P.A.C.E.S</td>
</tr>
<tr>
<td>510.7 Go</td>
<td>Build It!: Festival: Teacher’s Guide.</td>
</tr>
<tr>
<td>510.71 Rob</td>
<td>Math. <em>Stop Faking it! Finally Understanding Science So You Can Teach it</em></td>
</tr>
<tr>
<td>516.2 Ba</td>
<td>Containers and Cubes: 3-D Geometry.</td>
</tr>
<tr>
<td>516.2 Fu</td>
<td>A Blueprint for Geometry.</td>
</tr>
<tr>
<td>530 Wh</td>
<td>Skateboard Science: A Hands-On Exploration of Physics in Motion.</td>
</tr>
<tr>
<td>530 Yea</td>
<td>If You Build it, They Will Learn: 17 Devices for Demonstrating Physical Science.</td>
</tr>
</tbody>
</table>
530.078 Ba
Breaking Away from the Math and Science Book: Physics and Other Projects for Grades 3-12.

531 La
Force & Motion.

531.6 Er
Brick Layers: Creative Engineering with LEGO Constructions.

537 Ma

567.902 Mc
Make Your Own Dinosaur out of Chicken Bones: Foolproof Instructions for Budding Paleontologists.

600 Mo
Models and Designs. (FOSS Teacher’s Guide)

608 Eg
Inventors and Inventions: Creative Cross-Curricular Activities, Fascinating Background Information, Problem-Solving Investigations for All Students.

609 Ben
Eyewitness Invention.

609 Go
Best of Rube Goldberg.

620 Go
Engineering Projects for Young Scientists.

SPANISH
620 Ma
¿Qué Hay Debajo de la Tierra?

620.009 And
Amazing Leonardo da Vinci Inventions You Can Build Yourself.

621.8 McB

621.807 Ga
Sensational Science Projects with Simple Machines.

621.811 Ma
Machine Shop.

623 Ma
Castle.

SPANISH
624 Je
Estructuras.

624 Ma
Underground.

624 Zub
Structures.

624.1 Fa
Fantastic Feats and Failures.

SPANISH
624.1 Ha
Las Construcciones.

624.1 Ma
Domes, a Project Book.

624.1 Sa
The Art of Construction: Projects and Principles for Beginning Engineers and Architects.
SPANISH 627 Co  Represas.

SPANISH 629.04 Tr  El Transporte y la Navegación.

629.13 Fr  Flight.

SPANISH 629.2 Yo  El Automóil: Desde el Prototipo Hasta el Desguace.

SPANISH 629.22 Co  Automóviles.

SPANISH 629.222 Su  Automóviles.


720 Ar  Architecture in Education.

SPANISH 720 Co  Rascacielos.

720 Da  Making Model Buildings.

720 Fr  From the Ground Up: Modeling, Measuring and Constructing Houses.

720 Ma  Building Big.

720 Ma  Unbuilding.

720 Pa  Architecture: A Shelter Word.

720 Th  Frank Lloyd Wright: A Visual Encyclopedia.

720 Wi  Amazing Buildings.

720 Wr  Frank Lloyd Wright for Kids.


720.973 Lan  Icons of American Architecture: From the Alamo to the World Trade Center.


725 Be  The Creation of Bridges: From Vision to Reality – the Ultimate Challenge of Architecture, Design, and Distance.

SPANISH 728.8 Co  Castillos.
729 BI  Geometry in Architecture.
745.4 SI  Why Design?: Activities and Projects From the National Building Museum.
SPANISH  796.7 Ba  Carros de Carrera.
SPANISH  917.47 Ma  Los Edificios de Nueva York.
932 Ma  Pyramid.
937 Ma  City: A Story of Roman Planning and Construction.
940.1 Ma  Cathedral: The Story of its Construction.

**FINE ART PRINTS**

| FAP Demuth 1     | I Saw the Figure 5 in Gold. |
| FAP Douglas 1    | Build More Stately Mansions. |
| FAP Escher 2     | Boven En Onder. |
| FAP Escher 4     | Belvedere. |
| FAP Estes 1      | Woolworth’s |
| FAP Leonardo 7   | Scythed Car and Covered Armored Car. |
| FAP O’Keeffe 5   | Ranchos Church. |
| FAP Stella 1     | The Brooklyn Bridge. |

**VIDEOS AND DVDS**

<table>
<thead>
<tr>
<th>CALL NUMBER</th>
<th>TITLE</th>
<th>LEVEL</th>
<th>TIME</th>
</tr>
</thead>
</table>
| MP 3233 VHS | Frank Lloyd Wright: Rebel and Prophet.     | I-M   | 29 Min.
| MP 3688 VHS | Modeling in Science?                      | I     | 14 Min.
| MP 5711 VHS | Tooth-gnasher Superflash. (Reading Rainbow)| P-I   | 28 Min.
| MP 5812 VHS | How do You Know?: Make a Model.           | I-M   | 15 Min.
| MP 5857 VHS | Futures: Automotive Design.                | M-S   | 15 Min.
| MP 5997 VHS | Home. (3-2-1 Contact)                     | I-M   | 31 Min.
| MP 6098 VHS | Getting it Right: Three Stories about Problem Solving. | M-S | 18 Min. |
MP 6360 VHS  The Wonderful Towers of Watts.  P-I  29 Min.
MP 6663 VHS  House Construction.  P-I  28 Min.
MP 6842 VHS  Balance / Structures. (Bill Nye)  I-M  47 Min.
MP 6856 VHS  Friction / Simple Machines. (Bill Nye)  I-M  47 Min.
MP 7184 HVS  Entrepreneur—Coin Dealer / Structural Engineer.  I-M-S  18 Min.
MP 7208 VHS  Environmental Engineer: Automotive Engineer.  I-M-S  30 Min.
MP 7846 VHS  The Science of Music / Architecture. (Bill Nye)  I-M  47 Min.
MP 7817 VHS  Scholastic’s The Magic School Bus Under Construction.  P-I  30 Min.
MP 7876 VHS  Models and Designs.  PRO  60 Min.
MP 8033 VHS  Bridges.  I-M  60 Min.
MP 8034 VHS  Dams.  I-M  60 Min.
MP 8035 VHS  Domes.  I-M  60 Min.
MP 8036 VHS  Skyscrapers.  I-M  60 Min.
MP 8037 VHS  Tunnels.  I-M  60 Min.
MP 8137 VHS  Thinking Big and Building Small.  I-M  65 Min.
MP 8264 VHS  Henry Ford.  I-M-S  23 Min.
MP 8268 VHS  Structures.  I-M-S  25 min.
MP 8321 VHS  Real World Science II: The Scientific Method.  P-I  18 Min.
MP 8398 VHS  Expository Writing.  P-I  23 Min.
MP 8762 VHS  Science as Inquiry in Action.  I-M  23 Min.
MP 9104 DVD  Belts & Gears. (The Way Things Work)  P-I  13 Min.
MP 9105 DVD  Inclined Planes. (The Way Things Work)  P-I  13 Min.
MP 9106 DVD  Levers. (The Way Things Work)  P-I  13 Min.
MP 9107 DVD  Pulleys. (The Way Things Work)  P-I  13 Min.
MP 9108 DVD  Screws. (The Way Things Work)  P-I  13 Min.
MP 9109 DVD  Wheels & Axles. (The Way Things Work)  P-I  13 Min.