

# Nuts, bolts and thingamajigs



CLOCKWISE FROM TOP LEFT: 1) Leah Mueller, 12, paints a step stool that she constructed as a part of the Nuts Bolts and Thingamajigs camp at Riverside High School in Boardman, Ore; 2) Liam Heideman, 12, paints a step stool that he constructed; 3) Wyatt Browne, 13, sands a piece of wood to construct a step stool; 4) Kids work on constructing and finishing step stools.

Staff photos by Ben Lonergan

By JESSICA POLLARD  
STAFF WRITER

Elaina Salgado has big plans for the future.

The 11-year-old, who is headed into the sixth grade at Windy River Elementary in Boardman, plans on becoming a veterinarian. And as of last week, she was also hoping to design and custom-make her own chair out of a tree stump.

She's one of 21 middle school kids from Morrow and Umatilla counties to participate in the second annual "Nuts, Bolts and Thingamajigs" camp, which focuses on manufacturing.

"I'm used to tools," she explained.

Prior to the camp, Salgado said she had helped her family out with maintenance projects around the house, including oil changes on her family's car.

But last week, she and the other campers took their math, science and manual skills to a new level when they built their own step stools and solar cars with the guidance of Ken Jacobs, a wood shop teacher at Pendleton's Sunridge Middle School.

Jacobs has been in the wood shop at Sunridge for five years, but has been working with kids for three decades. He said the projects this summer are no simple feat.

"It's challenging," he said. "They are more capable than we give them

credit for."

Last week, campers toured the Port of Morrow, SAGE Center, and Lamb Weston before heading back to the wood shop at Riverside High School each afternoon to work on their projects.

They also got their feet wet with the 3D design software SOLIDWORKS, which they used to design the step stools.

On Thursday afternoon, the wood shop behind Riverside High School was bursting with the noise of power tools and the scent of wood. Kids were drilling, cutting, sanding and painting their stools while a troop of solar cars waited ready to roll for Friday's parent showcase in the next room over.

"You're sawing, you're sanding, you're measuring," said Colby Crowell, a soon-to-be sixth-grader at Windy River. "It's building stuff. I learned that manufacturing is building things, putting them together and designing them."

The camp is funded with a three-year tiered grant from the Fabricators and Manufacturers Association. The camp was made possible from a partnership between OSU Extension Service, the POM and Blue Mountain Community College.

"It really gives these students an opportunity to look at a wide range of manufacturing careers," said Kalie Davis, a workforce training program manager at the Port of Morrow.

## CRYPTOQUIP

This is a simple substitution cipher in which each letter used stands for another. If you think that X equals O, it will equal O throughout the puzzle. Solution is accomplished by trial and error.

Clue: W equals F

DW VCS BJGJQ KJO INOCQ

GISFRB CQ PDBFJQ FDKK FJO

ORJ HJPO CW VCS, D PSUUCPJ

VCS'QJ DB-GDBNJ-IHKJ.

you're in-Vince-able.  
the best of you, I suppose  
Vaughn or singer Gill get  
If you never let actor  
answer

### Cryptoquip

W I Z A R D S H U B B I S  
E V I L G I E Y E O F F E N D S C U B A N  
B E G I N N I N G O F T I M E R E S E  
E R A T S E A N D A N D A N T M A D  
F E R R E T F U I D A N N O  
F A M I L Y F O R T U N E P E E R I N G  
T E P O R T W M R I C T O R  
E D S L E W M O H S  
A V I N T A V I  
H A L O Z O O  
L A O P O P A R I N I  
T A R S I A L A P  
N I R E N O N  
D I E N A V A  
S N R E N A M O G E R S P U P N O  
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S S T E S  
O P E N E R S O  
H O S O  
R I C E B I S T E  
O N I N S I  
D I F I D I O I D  
A V A N D O P S B Y

### Answers

## Super Crossword

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## SUPER CROSSWORD: MAGAZINE ENTERTAINMENT

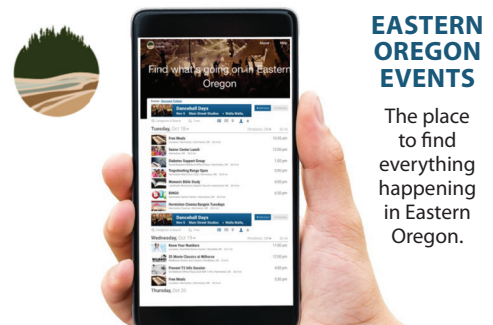
- ACROSS**  
1 Warlocks  
8 Missus' counterparts  
15 Impetus  
20 Sinister look  
21 Is an affront to  
22 Castro, e.g.  
23 First page  
24 In a news magazine?  
25 Pee Wee of old baseball  
26 Bewilder  
27 Starchy pudding foodstuff  
28 Give fizz to  
29 QED's center  
33 Auto variety  
36 Have no subscription to a humor magazine?  
38 Otter relative  
40 Apple variety  
42 "Hawaii Five-O" nickname  
43 Business magazine shared by a mother, a father and their kids?  
47 Gazing  
51 Resin used in adhesives  
52 Heady quaff  
53 Snitch  
55 Novelist, e.g.  
56 Garr of the screen  
57 Billy Joel's "— It Goes"  
59 Trailways fleet unit  
61 Small bay  
62 Classic  
64 "I demand 'Far North' to see that financial magazine!"  
69 "You — kiddin'!"  
71 Pen-filled attraction  
72 Saintry ring  
73 Celebrity magazine that's not a special issue?  
79 Diminished  
84 Old salts  
85 — carte menu  
86 Firetruck noise  
88 Eat supper  
89 Bests  
92 Hence  
95 "Sheesh!"  
96 Artist Max  
97 Started to wake  
99 Inherit a fashion magazine?  
102 Concerning the kidneys  
104 Rainbow flag initialism  
105 Carpenter's gun, perhaps  
106 Post-it stuck in a page of a wellness magazine?  
110 Back of a 45 record  
111 Antiseptic solution  
113 Harper of "Far North"  
114 First game of the season  
115 Artsy NYC district  
117 Pilaf base  
119 Ties together  
120 Drop a health magazine in a filled bathtub?  
127 Map feature  
128 Having two complete chromosome sets  
129 Pyrenees principality  
130 Precient types  
131 Has ill will for  
132 Pays a visit  
**DOWN**  
1 Fly trapper  
2 "— been there"  
3 First of two sharp turns  
4 Former ring king  
5 Tear apart  
6 Ruling house  
7 Capture  
8 Sty resident  
9 Aliens' ship  
10 Closest buds, briefly  
11 Antiseptic  
12 British architect  
13 Astronomer  
14 Cleveland-to-Akron dir.  
15 Many a TSA employee  
16 Its capital is San Juan  
17 At right angles to the keel  
18 Halle Selassie disciple, informally  
19 Jabbed with a bent leg  
24 Novelist  
28 Nixon's veep  
29 Lacking vigor  
30 Got as profit in Paris  
31 Knight suits  
32 Friend of Alice Kramden  
34 In a new way  
35 Trail mix bit  
37 Faucet  
39 Actor Ron  
41 Stick (out)  
44 Engine part  
45 Antiquated  
46 Dresden's river  
48 "Bring —!"  
49 Campbell of the screen  
50 — Poupon  
54 Certain Christian  
57 Laos' home  
58 Be seepy  
60 — Na Na  
63 Shared PC system  
65 Wine and dine, maybe  
66 Janitors' tools  
67 Flair  
68 Unruly bunch  
70 Gun  
73 Great Plains natives  
74 Have a hissy  
75 Eins, zwei, —  
76 "OK, you win!"  
77 Picnic place, in Paris  
78 Ceilings  
80 Not clumsy  
81 Prickly feeling  
82 Follows as a result  
83 Hinders  
87 Penlight-welding doc  
90 Advance exams  
91 Madrid Mr.  
93 Links target  
94 Texter's "Yowza!"  
96 Longoria of the screen  
98 "— Kapital"  
100 Diminish  
101 Minimal bit of cash  
103 Nielsen of "Airplane!"  
106 "Ora pro —"  
107 Share a view  
108 Jittery  
109 Furt, e.g.  
111 Deep anger  
112 Aria queens  
116 Have too much, for short  
118 Prefix with spore  
120 Prez on a dime  
121 Quarry for forks:  
Abbr.  
123 Best  
124 CPA hirer  
125 Sky sphere  
126 Call of dissent

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DIFFICULTY THIS WEEK ★★★



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