

# SHOP CALENDAR WEEK 1

MAY 25TH-29TH  
BUILD, CREATE, DISCOVER!

PLAY

EXPLORE

GROW

9:00-10:00 DAILY: GARDEN CHORES

★ MONDAY ★

5/25

CLUB  
IS  
CLOSED

★ TUESDAY ★

5/26



10:15-11:45  
Name Tags



11:45-12:45  
Free Draw



12:45-2:00  
Circuits



2:00-3:00  
Free Choice

★ WEDNESDAY ★

5/27



10:15-11:45  
Catapults



11:45-12:45  
Free Draw



12:45-2:30  
Perler Beads



2:30-3:00  
Free Choice

★ THURSDAY ★

5/28



10:15-11:45  
Balloon Cars



11:45-12:45  
Free Draw



12:45-2:00  
Elephant  
Toothpaste



2:00-3:00  
Free choice

★ FRIDAY ★

5/29



10:15-11:45  
Free Build



11:45-12:45  
Free Draw



12:45-3:00  
Free Build

BIG IDEAS  
HANDS-ON FUN  
ENDLESS POSSIBILITIES

# STEM

BUILD IT.  
CREATE IT.  
LOVE IT!



# SHOP CALENDAR WEEK 2

JUNE 1ST-5TH

WRESTLING with STEM and Scientific Thinking

9:00-10:00 DAILY: GARDEN CHORES

★ MONDAY ★

★ 6/1 ★



10:15-11:45  
Exploration Stations  
(Circuits, Towers,  
and Magnification)



11:45-12:45  
Drawing Challenge

### TEAM CHALLENGES



12:45-1:45  
Marshmallow  
Tower Building



1:45-3:00  
Paper Plane

★ TUESDAY ★

★ 6/2 ★



10:15-11:45  
Balloon Cars



11:45-12:45  
Drawing Challenge

### MINI EXPERIMENTS



12:45-1:30  
Vinegar and  
Baking Soda



1:30-2:15  
Sink/Float  
Testing



2:15-3:00  
Color Mixing

★ WEDNESDAY ★

★ 6/3 ★



10:15-11:45  
Rockets with  
Cave Cubs



11:45-12:45  
Drawing Challenge



12:45-3:00  
Measurement  
(Time, Weight, Length)



Farthest Jump

Longest Hang Time



Guessing Weight

★ THURSDAY ★

★ 6/4 ★



10:15-11:45  
What is an Engineer?  
Tower Building  
Contest  
(Paper and Tape)



11:45-12:45  
Drawing Challenge

### TEAM CHALLENGES



12:45-3:00  
Marshmallow  
and Toothpick  
Bridges

★ FRIDAY ★

★ 6/5 ★



10:15-11:45  
Be The Engineer!  
Mini STEM Fair  
STEM STATIONS  
(Circuits, Lego  
Creation, and  
Catapults)



11:45-12:45  
Drawing Challenge



12:45-3:00  
Mini STEM Fair  
STEM STATIONS  
(Circuits, Lego  
Creation, and  
Catapults)



PIN IT!



BUILD IT!  
SOLVE IT!

# SHOP CALENDAR WEEK 3

JUNE 8TH-12TH

SIMPLE MACHINES AND ENGINEERING BASICS

9:00-10:00 DAILY: GARDEN CHORES

★ MONDAY ★

THE 6 SIMPLE MACHINES

6/8



10:15-11:45  
The 6 Simple  
Machines  
(lever, wheel & axle,  
pulley, wedge, screw,  
inclined plane)



11:45-12:45  
Drawing Challenge

TEAM CHALLENGES



12:45-2:30  
Build a Mini  
Catapult



2:30-3:00  
Catapult TESTING

★ TUESDAY ★

LEVERS & PULLEYS

6/9



10:15-11:45  
Lever Launchers  
(Force, Fulcrum,  
Load)



11:45-12:45  
Drawing Challenge



12:45-2:15  
Build a  
Bucket Pulley



2:15-3:00  
Weight lifting  
Challenge

★ WEDNESDAY ★

INCLINED PLANES & WHEELS

6/10



10:15-11:45  
Ramp Challenge  
(Who's car  
roles farther)



11:45-12:45  
Drawing Challenge



12:45-2:15  
Build a  
Rolling Cart



2:15-3:00  
Rolling Cart  
Distance Challenge

★ THURSDAY ★

WEDGES & SCREWS

6/11



10:15-11:45  
Wedge Testing



11:45-12:45  
Drawing Challenge



12:45-2:15  
Build a Spiral  
Screw Machine



2:15-3:00  
Test your  
Machines

★ FRIDAY ★

TEAM CHALLENGE DAY

6/12



10:15-11:45  
Develop a Complex  
Machine using at  
least 2 simple  
Machines.



11:45-12:45  
Drawing Challenge



12:45-2:00  
Improve and  
Finalize Machines



2:00-3:00  
Show Off your  
Machine

BUILD IT!  
CREATE IT!

STEM

DESIGN • BUILD • SOLVE

SOLVE IT!  
IMPROVE IT!

# SHOP CALENDAR WEEK 4

★ JUNE 15TH-19TH ★  
ENGINEERING AND STRUCTURES

9:00-10:00 DAILY: GARDEN CHORES

★ **MONDAY** ★  
ENGINEERING & STRUCTURES

**6/15**

10:15-11:45  
Build a Structure out of Legos. (Beams, Arches, and Trusses)

11:45-12:45  
Drawing Challenge

12:45-2:15  
Build Straw Trusses

2:15-3:00  
Truss Test

★ **TUESDAY** ★  
BRIDGE DESIGN

**6/16**

10:15-11:15  
Sketch- Bridge Design

11:15-11:45  
Share Bridge Designs

11:45-12:45  
Drawing Challenge

12:45-3:00  
Start Building Bridges

★ **WEDNESDAY** ★  
BRIDGE BUILDING

**6/17**

10:15-11:45  
Build Bridges

11:45-12:45  
Drawing Challenge

12:45-1:30  
First Weight Tests

1:30-3:00  
Redesign Weak Areas of Bridges

★ **THURSDAY** ★  
RECONSTRUCT & RETEST

**6/18**

10:15-11:45  
Finish Reconstruction

11:45-12:45  
Drawing Challenge

12:45-1:30  
Make your Final Adjustments

1:30-3:00  
Retest your Bridges

★ **FRIDAY** ★  
FATHER'S DAY CELEBRATION

**6/19**

10:15-11:45  
Making a Back Scratcher for Dad

11:45-12:45  
Drawing Challenge

12:45-2:30  
Make Father's Day Cards

**BUILD IT!  
TEST IT!  
IMPROVE IT!**

**STEM**  
DESIGN ★ BUILD ★ SOLVE

**STRONG BRIDGES,  
STRONGER MINDS,  
BRIGHTER FUTURES!**

**THANK YOU  
DAD!**

# SHOP CALENDAR WEEK 5

**JUNE 22ND-26TH**  
**BIOLOGY AND LIFE SCIENCE**

**9:00-10:00 DAILY: GARDEN CHORES**

**MONDAY**

**CHARACTERISTICS OF LIFE**

**6/22**

10:15-11:45

Stations:  
Living  
VS  
Nonliving



11:45-12:45  
Drawing Challenge



12:45-2:15  
Build a Life Cycle Wheel



2:15-3:00  
Share your Wheel



**TUESDAY**

**MICROSCOPES AND CELLS**

**6/23**

10:15-11:45

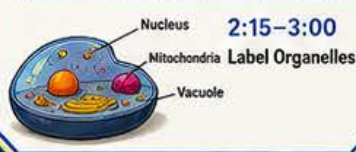
View Slides Under  
Microscopes  
and Draw What  
You See



11:45-12:45  
Drawing Challenge



12:45-2:15  
Build a Cell Model



**WEDNESDAY**

**ANIMAL ADAPTATION**

**6/24**

10:15-11:45  
Camouflage Art



11:45-12:45  
Drawing Challenge



12:45-1:30  
Research Animals



1:30-3:00  
Build a Habitat Diorama



**THURSDAY**

**RECONSTRUCT AND RETEST**

**6/25**

10:15-11:00  
Finish Diorama



11:00-11:45  
Present Dioramas



11:45-12:45  
Drawing Challenge



1:00-3:00  
Under the Big Top



**FRIDAY**

**NATURE OBSERVATION**

**6/26**

9:45-12:00  
Dark Canyon  
Nature Walk



12:00-12:45  
Drawing Challenge



12:45-2:30  
Build a Nature Collage



2:30-3:00  
Present Collage



**EXPLORE IT!  
LEARN IT!  
LIVE IT!**

**STEM**

DISCOVER \* BUILD \* SOLVE

**CURIOUS MINDS  
GROW HERE!**

BIOLOGY  
LIFE SCIENCE  
NATURE

# SHOP CALENDAR WEEK 6

JUNE 29TH-JULY 3RD  
MOTION AND FORCE

9:00-10:00 DAILY: GARDEN CHORES

★ MONDAY ★

FORCE AND MOTION

6/29



10:15-11:00  
Push Vs Pull Relay



11:00-11:45  
Force Test  
(Push your Cars)



11:45-12:45  
Drawing Challenge



12:45-3:00  
Build the Fastest Car  
(Recycled Materials)

★ TUESDAY ★

FRICTION

6/30



10:15-11:45  
Surface Test  
(Felt, Sandpaper,  
Foil, and Wood)



11:45-12:45  
Drawing Challenge



12:45-2:00  
Friction Fixer  
(Redesign your car  
to have less Friction)



2:00-3:00  
RETEST CARS

★ WEDNESDAY ★

NEWTONS LAW

7/1



10:15-11:15  
Build Balloon  
Rockets



11:15-11:45  
Test Rockets



11:45-12:45  
Drawing Challenge  
Team Challenge



12:45-2:15  
Escape Pods



2:15-3:00  
Test Pods

★ THURSDAY ★

CLUB  
IS  
CLOSED



★ FRIDAY ★

CLUB  
IS  
CLOSED



PUSH! PULL! TEST!  
BUILD! REDESIGN!  
GO FASTER!

STEM

DESIGN ★ BUILD ★ SOLVE

UNDERSTAND  
MOTION.  
CREATE THE  
FUTURE!