

# FUN IN THE SUN

5 DAYS OF THEMED SCHOOL-AGE  
SUMMER CAMP LESSONS

**BEST  
DAY  
EVER!**

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# FUN IN THE SUN

Fun in the Sun is a robust school-age unit steeped in activities that enable children to challenge themselves, experiment, and transform information into meaningful content and skills. Students will “shine brightly” as they use scientific thinking, inquiry, and discovery! While the lesson plan incorporates many different Pennsylvania Learning Standards, it focuses on the key learning area of “Approaches to Learning through Play.” Specifically, children will learn to engage in learning activities that meet the PA Standard Areas of “Constructing, Organizing, and Applying Knowledge.”

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## SCHEDULE

### DAY 1

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - SUNNY MONOPRINTS	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - DON'T GET BURNED	30 MINUTES
HANDS-ON ACTIVITY - LIGHT BOX EXPERIMENTS	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - SUN BEAD AND YARN CRAFT	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - RISE AND SHINE	30 MINUTES
HANDS-ON ACTIVITY - SUN MOSAIC	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

### DAY 2

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - GELATIN SUNCATCHERS	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - STRADDLE THE SUN	30 MINUTES
HANDS-ON ACTIVITY - WINDOW CLINGS	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - PAPER PLATE SUN CRAFT	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - GET OUT OF THE SUN!	30 MINUTES
HANDS-ON ACTIVITY - STAINED GLASS	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

### DAY 3

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - ERUPTING ICE CHALK	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - POOL NOODLE BASEBALL	30 MINUTES
HANDS-ON ACTIVITY - SQUISH PAINTED SUN	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES

HANDS-ON ACTIVITY - SUN MELTED HOMEMADE CRAYONS	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - YOU ARE MY SUNSHINE CARDS	30 MINUTES
HANDS-ON ACTIVITY - SPRAY BOTTLE PAINTING	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

## DAY 4

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - SUNSCREEN SUNPRINTS	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - SUN SAFETY RELAY	30 MINUTES
HANDS-ON ACTIVITY - WHAT ABSORBS MORE HEAT? BLACK OR WHITE?	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - DESIGN A SHELTER FOR A UV SENSITIVE ANIMAL	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - COOPERATION: DECODE A JOKE	30 MINUTES
HANDS ON ACTIVITY - WHAT CAN THE SUN MELT?	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	10 MINUTES

## DAY 5

ARRIVAL ACTIVITY	20 MINUTES
READY, SET, LEARN	15 MINUTES
HANDS-ON ACTIVITY - SHADOW DRAWING	20 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING - SHADOW TAG	30 MINUTES
HANDS-ON ACTIVITY - SUN DRIES WATER EXPERIMENT	15 MINUTES
BREAK/LUNCH TIME	15 MINUTES
HANDS-ON ACTIVITY - SUNDIAL	30 MINUTES
SOCIAL-EMOTIONAL LEARNING - DETECTIVE	30 MINUTES
HANDS-ON ACTIVITY - PAPER PLATE SUN VISORS	30 MINUTES
WRAP UP/GOODBYES	10 MINUTES
LATE PICK-UP	15 MINUTES

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# MATERIALS LIST

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- Food coloring
- Tape
- Pencils
- Aluminum foil
- Glue sticks
- Picture of the sun
- Paintbrushes
- Cotton swabs
- Liquid glue
- Scissors
- Wax paper
- Picture of the sun
- Cornstarch
- Baking soda
- Pool noodles
- Bases
- Ice cube trays
- Vinegar
- Blue paper
- Glue sticks
- Paintbrushes
- Broken old crayons
- Muffin tin liners
- Mini muffin tin (or muffin tin)
- Cardstock (blue, yellow, and white)
- Masking tape
- Googly eyes
- Markers
- Food coloring
- Spray bottles
- Hole punch
- Chenille stems (yellow)
- Plastic disposable plates
- Small sequins
- Playground ball
- Colored tape
- Markers
- Paper plates
- Elastic or yarn
- Liquid watercolor paint or food coloring
- Squeeze bottles or spray bottles
- Surface to paint on – wax paper, freezer paper, parchment paper, or laminated placemats all work great
- Tape to hold surface still on the table
- Tempera paint (yellow, orange, and red)
- Paper for printing – (drawing paper and printer paper)
- Yellow bean bag or ball
- Large cardboard box
- Water bottles
- Scissors or sharp tool for cutting holes on the box (prepped by an adult in advance)
- Yarn pieces in yellow and orange, cut into 3' lengths – one end taped for easy bead stringing
- Hot glue or sticky tac
- Craft sticks, sun colors (or can be painted or colored with markers sun colors)
- 16-24 pony beads, sun colors
- Construction paper (black, white)
- Various colors of paper cut into half-inch strips (shades of orange, yellow, and blue)
- Picture of the sun
- Packages of unflavored gelatin (Knox is the common brand)
- Glue
- Dish soap
- Food coloring
- Plastic wrap or plastic sheet protector
- Yellow paper plates (you can also use a white plate and paint it yellow)
- Yellow straws solid and striped (You can use tube-shaped pasta instead of straws).
- Yellow tissue paper squares (optional red and orange)
- Yellow or jewels or sequins
- Flat bedsheet, blanket, or tarp
- A printed mandala pattern or a drawing of your own on white paper
- Small ball, beach ball, balloons
- Cardstock paper circles 8"
- Plastic gallon resealable bags
- Yellow, orange, and red acrylic paint

- Roll of paper, individual sheets, or canvas or bed sheet
- Paint thinned with water (this can be water-based paint of any kind. If you use tempera or acrylic, make sure to add lots of water so the paint is very, very thin.)
- Masking tape
- Aprons or old shirts to protect clothing (optional)
- Picture of the sun
- Sunscreen
- Objects to hold paper down
- 2 pairs of plastic sunglasses
- 2 hats
- 2 bottles of sunscreen
- 2 tall jars or cans of equal size
- Tape or stick glue
- Black and white unwrapped crayon pieces
- Thermometer
- Chenille stems
- UV-Sensitive pony beads (can be purchased online)
- Googly eyes
- Variety of recyclables for making a shelter (cardboard, paper plates, craft sticks, cartons)
- Coded joke worksheets
- Marshmallows (regular size)
- Mini candy bars with nougat
- Milk chocolate candy bars
- Magnifying glasses
- Picture of the sun
- Sidewalk chalk
- Containers to hold water (buckets, bins, paint trays, etc.)
- Timer

## SHOPPING LIST

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# DAY 1 – ABOUT THE SUN

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## ACTIVITY/CONCENTRATION

### EARLY DROP OFF - ARRIVAL ACTIVITY

During this free time, students will select and use toys or games associated with the daily theme.



## DURATION/SCHEDULE

180 minutes – 6 to 9 a.m.

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## ACTIVITY/CONCENTRATION

### READY, SET, LEARN

Class discussion about the sun.

#### Sun Facts:

The Sun is our nearest star. The Sun provides us with light and heat. It also gives out dangerous ultraviolet light which causes sunburn. Without the Sun there would be no daylight, and our planet would simply be a dark, frozen world with no oceans of liquid water and no life.

This huge ball of superhot gas is 1.4 million kilometers across, equal to 109 Earths set side by side. With a mass of 2 million-trillion-trillion-trillion kilograms, it weighs as much as 330,000 Earths. About 1,300,000 Earths would fit inside the Sun!

From Earth, the Sun looks like it moves across the sky in the daytime and appears to disappear at night. This is because the Earth is spinning towards the east. The Earth spins about its axis, an imaginary line that runs through the middle of the Earth between the North and South poles. This means that to us here on the spinning Earth, the Sun appears to rise in the east in the morning and climb higher and higher in the sky towards midday. In the afternoon, the Sun then seems to move lower and lower in the sky before setting in the west.

Although it seems small when seen at sunrise or sunset, this is only because the Sun lies about 150 million km away from us. At this distance, it takes about 8 minutes for sunlight to reach us, even when it is traveling at about 300,000 km/s. This means that we see the Sunset eight minutes after the event has taken place!

#### FUN SUN FACTS:

- The sun contains 99.86% of all the solar system's known mass.
- The sun is in the center of our solar system.
- The sun is a star-like giant with millions more in other galaxies.
- Its diameter is around 109 times that of earth.
- Its mass is about 330,000 times the mass of earth.
- The light from the sun takes eight (8) minutes to reach the earth.
- All matter in the sun is in the form of gas (and plasma).



Picture courtesy of NASA