POWER UP

5 DAYS OF THEMED SCHOOL-AGE SUMMER CAMP LESSONS

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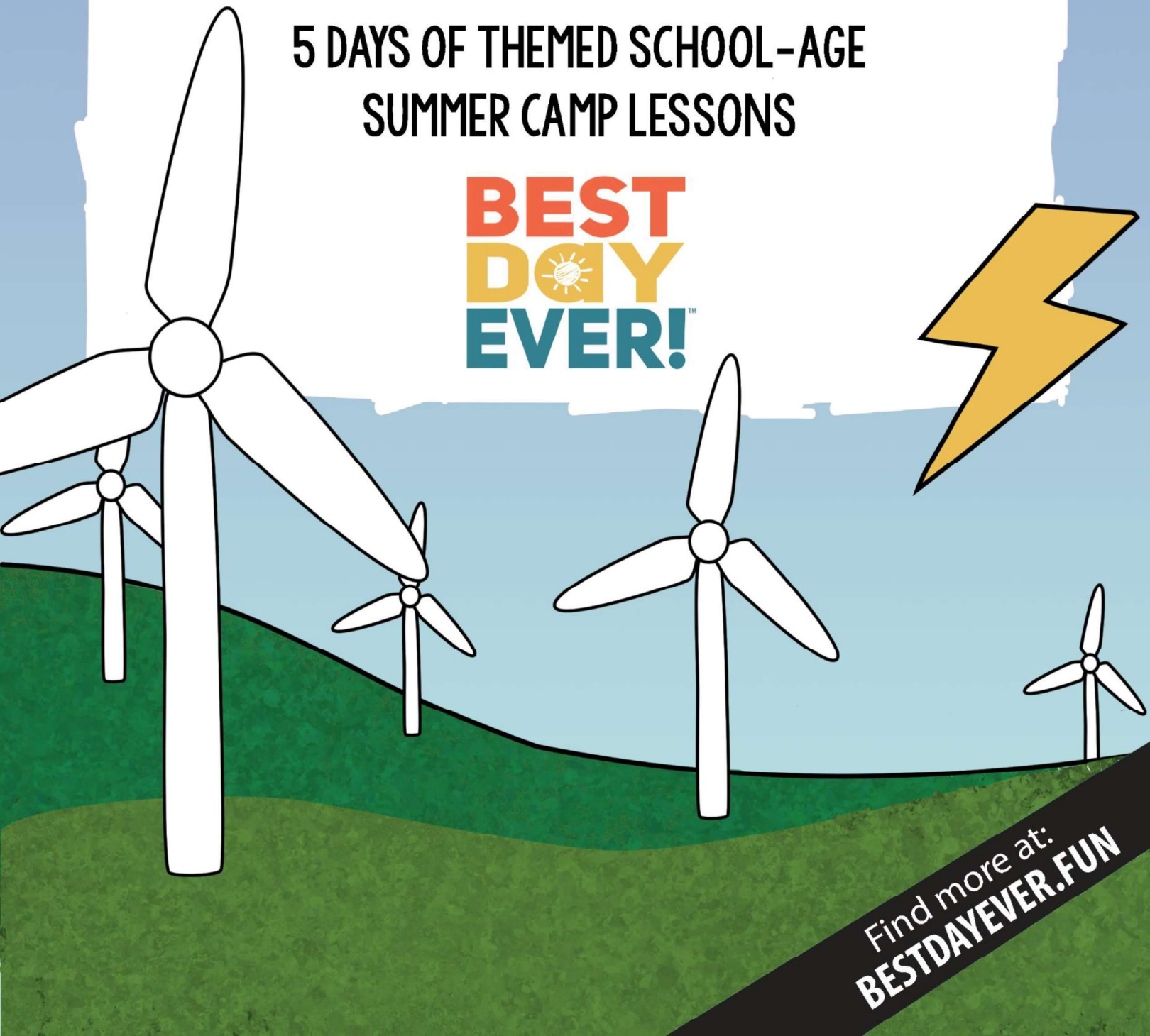

Find more at:
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POWER UP

There's power in the wind! Explore wind energy by crafting and testing kites, investigating renewable energy through an exciting game of bingo, racing to match energy terms, and creating your own energy books. It's a week of hands-on science and energizing fun! Power Up is a robust school-age unit steeped in activities that enable students to challenge themselves, experiment, and transform information into meaningful content and skills. While the lesson plan incorporates many different Pennsylvania Learning Standards, it focuses on the key learning areas of "Scientific Thinking and Technology" and "Approaches to Learning Through Play." Specifically, students will learn to engage in learning activities that meet the PA Standard Areas of Earth Sciences, Environment and Ecology, and Constructing, Organizing, and Applying Knowledge.

SCHEDULE

DAY 1

ARRIVAL ACTIVITY	180 MINUTES
READY, SET, LEARN	45 MINUTES
HANDS-ON ACTIVITY – FLOWER PINWHEEL	30 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING – WIND RACES	45 MINUTES
HANDS-ON ACTIVITY – PAPER PLATE SAILBOAT	30 MINUTES
BREAK/LUNCHTIME	45 MINUTES
HANDS-ON ACTIVITY – DIY WEATHERVANE	45 MINUTES
SOCIAL-EMOTIONAL LEARNING – ZONES OF REGULATION	45 MINUTES
HANDS-ON ACTIVITY – TABLECLOTH KITES	45 MINUTES
WRAP UP/GOODBYES	15 MINUTES
LATE PICK-UP	AS NEEDED

DAY 2

ARRIVAL ACTIVITY	180 MINUTES
READY, SET, LEARN	45 MINUTES
HANDS-ON ACTIVITY – CREATIVE CIRCUITS	30 MINUTES
BREAK/SNACK TIME	15 MINUTES
LET'S GET MOVING – HUNGRY SNAKE	45 MINUTES
HANDS-ON ACTIVITY – HANGING LIGHT BULB FLOWERPOT	30 MINUTES
BREAK/LUNCHTIME	45 MINUTES
HANDS-ON ACTIVITY – I LOVE YOU WATTS	45 MINUTES
SOCIAL-EMOTIONAL LEARNING – LIGHT BULB ENCOURAGEMENT CRAFT	45 MINUTES
HANDS-ON ACTIVITY – CHARGED-UP CROSSWORD	45 MINUTES
WRAP UP/GOODBYES	15 MINUTES
LATE PICK-UP	AS NEEDED

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MATERIALS LIST

- Multimedia player
- Cardstock
- Scissors
- Glue sticks
- Crayons
- Markers (including black, gray & orange)
- Pencils with erasers (for students to keep)
- Push pins
- Small balls, toy cars, etc.
- Chalk
- Paper plates
- Craft sticks (small, medium & large)
- Construction paper
- Water-based paint (including yellow, black & gray)
- Paintbrushes
- Cardstock (including white)
- Straws
- Stapler
- Colored pencils
- Plastic tablecloths
- Wooden bamboo skewers
- String
- Tape
- Copper tape (see shopping link provided in Additional Resources)
- Coin cell batteries (2032)
- LEDs (see shopping link provided in Additional Resources)
- Paper clips
- Jump ropes
- Emptied/hollow light bulbs
- Soil/plant substrate
- Small plants
- Paint markers
- Foam paintbrushes
- Baby wipes
- Decorative embellishments (such as large sequins)
- Cardboard
- Chenille stems (metallic)
- Cardboard tubes
- Wooden spoons
- Elastic bands
- Pom poms
- Playground balls
- Flying disks
- Safety cones
- Large trays
- Unopened water bottle
- Plastic cups
- Funnel
- Paper towels
- Play dough
- Blank paper
- Pencils (for writing)
- Foam pipe insulation or pool noodles
- Small ball
- Masking tape or duct tape
- Cardboard boxes
- Whiteboard or chart paper/markers
- Fabric tote bags
- Fabric paint
- Decorative items (leaves, flowers, rocks, crafting supplies, etc.)
- Notecards
- Buckets or containers
- Sturdy plastic plates
- Plastic spoons
- Empty plastic bottles
- Water
- Small container with lid
- Organic waste (fruit & vegetable scraps, leaves, grass clippings, etc.)
- Thermometers
- Measuring cup
- Bingo markers
- Insulation material (foil, plastic wrap, fabric, etc.)
- Balloons
- Notebook paper
- Game spinners
- Stopwatch/timer
- Hand-held or sturdy-based fans
- Plastic sheet protectors
- Optional: Gloves
- Optional: Prizes
- Optional: Beads or buttons
- Optional: Stickers

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ACTIVITY/CONCENTRATION

HANDS-ON ACTIVITY: BIRD FLYERS

- **STEP 1:** Print the Bird Flyer Template (provided in Additional Resources) and have the students color it.
- **STEP 2:** Then the students will cut along the outer edges of the black lines.
- **STEP 3:** Secure the Wings piece to the center of a straw using clear tape.
- **STEP 4:** Fold Tail Piece 1 in half along the center dotted line, then fold it again along the dotted lines through the wings. Position the end of the straw on Tail Piece 2 and tape it firmly in place.
- **STEP 5:** Align the folded Tail Piece 1 on top of Tail Piece 2, and secure in place with clear tape.
- **STEP 6:** Place a small ball of play dough at the end of the straw in front of the wings to add weight to the bird.
- **STEP 7:** Allow the students to experiment and fly their birds.

DURATION/SCHEDULE

45 minutes – 12:30 to 1:15 p.m.

MATERIALS

- Activity page: Bird Flyer Template (provided in the Additional Resources)
- Markers or colored pencils
- Straws (1 per student)
- Scissors
- Clear tape
- Play dough

GOALS/OBJECTIVES

- Create a work of art using different media and materials
- Coordinate eye and hand movements

STANDARDS

- 9.1.V 2.A
- 10.5 2.A

LEARNER MODIFICATIONS

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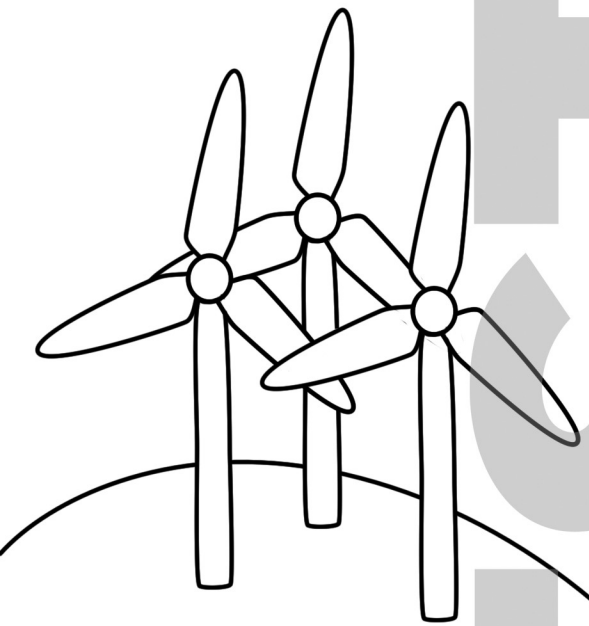
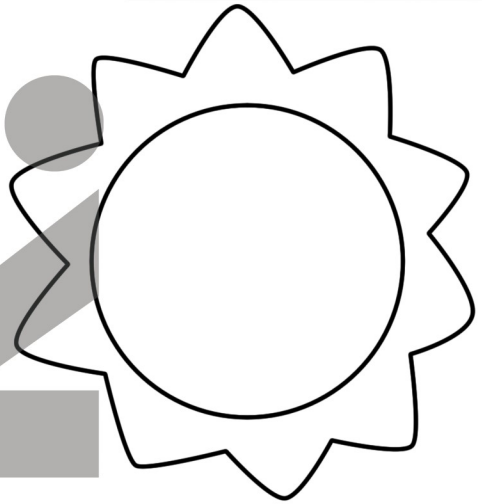
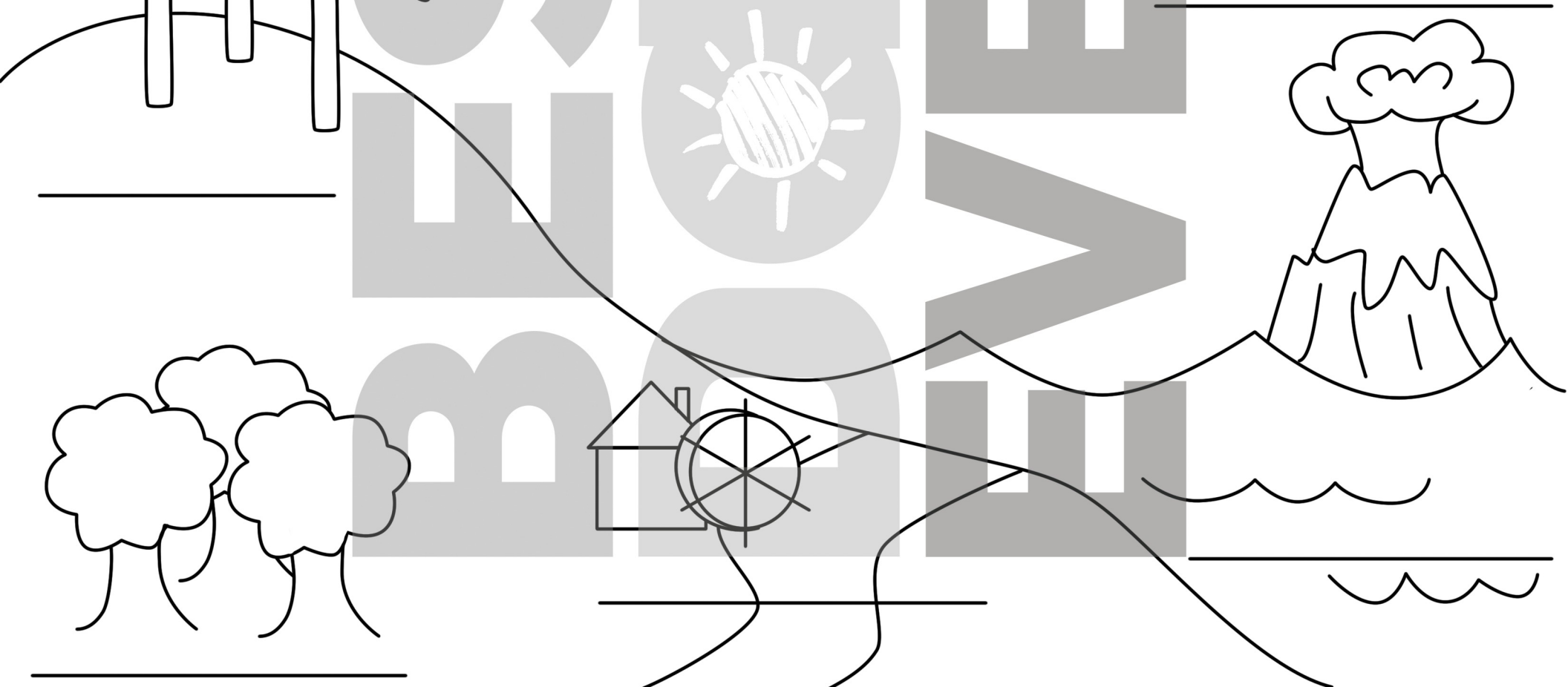
RENEWABLE ENERGY DIAGRAM





WORD BANK

SOLAR	GEOTHERMAL
HYDROPOWER	BIOMASS
WIND	OCEAN/TIDAL



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