AWF LESSON EQUIPMENT

***HO indicates a handout that can be found on the teacher resources page: https://arizonawet.arizona.edu/content/arizona-water-festival-teacher-resources

INTRODUCTION DEMONSTRATION OR VIDEO

- Water Cycle Diagram (HO)
- Electric burner or hot plate
- 2 metal pots, each ¾ full of water
- Metal pan
- Potholder
- Ice
- Water

LESSON 1: MOLECULES IN MOTION

- 2 one-quart size glass jars
- Blue Food color
- Ice
- Large container of boiling water (an electric kettle or hotplate can be used)
- Large container of room temperature water
- Large container of ice-cold water

Each water festival table group will need:
- 2 clear cups approximately 5 inches in height
- 2 rubber bands
- 2 popsicle sticks or wooden skewers
- 2 small clear vials

LESSON 2: WATER MOVEMENT BETWEEN EARTH SYSTEMS

- Clear plastic ziplock bag for each student.

LESSON 3: INCREDIBLE JOURNEY PROCESSES

- Water Cycle Processes Teacher Reference in curriculum unit guide

Each water festival group will need:
- Water Cycle Explanations cut into strips (HO)
- Water Cycle Places cards cut out (HO)
- 26 arrow cards cut out (HO)
- Ball of yarn
- Scissors
- Scotch tape
- 1 sheet of butcher block paper or poster board
LESSON 4: WATERSHEDS WORK

- Spray bottles
- 2 pieces of 8-1/2 by 11 white paper per student *(scrap paper can be used if blank on one side)*
- Water soluble markers (green, blue, brown, red, purple)
- Scotch Tape

LESSON 5: STORMWATER BEST MANAGEMENT PRACTICES

Each water festival group will need:

- 1 Storm Water Worksheet for each member of the group *(HO)*
- 2 aluminum trays (9x13, one with a hole in one end for draining)
- 3 regular size sponges cut into quarters (3x5)
- Quart size ziplock bags
- Liquid measuring cup or 100 mL graduated cylinders
- A set of Best Management Practice cards *(PWET 2.0 book, pg. 402)*

LESSON 6: GROUNDWATER CONNECTION

- 15 ft of butcher block paper
- Groundwater diagram *(HO)*

LESSON 7: YOUR LOCAL WATER CYCLE

- *Arizona Climate Data Tables* *(HO)*
- *Arizona Water Resources and Users by Water Festival and Location* *(HO)*
- poster board or butcher block paper
- markers, colored pencils

LESSON 8: ARIZONA WATER WEB

- *Population versus Water Usage over Time* graph *(found in unit Power Point presentation)*
- Index cards to create Water User Cards using the *Arizona Water Resources and Users by Water Festival and Location*
- 2 one-gallon empty milk jugs filled with water—label one “Groundwater” and one “Surface Water” tied together with a piece of yarn in a square knot
- 1 ball of yarn
- Enough Dixie cups for one per student

LESSON 9 (PART 1): WATERSHED AND WATER CYCLE RELATIONSHIP

- Butcher paper or poster board, 2 per water festival group
- Scrap paper
- Markers, crayons, colored pencils
• Cross-cutting Concepts Prompt (HO)
• all previous lesson products (diagrams, notes, local water cycle model, water web, etc.)

LESSON 10 (PART 2): WATERSHED AND WATER CYCLE RELATIONSHIP

• Presentation Questions (HO)
• student groups’ drawn models from Part 1
• all products of learning from previous lessons