

PROJECT WET – CONCEPTS FOR ALL AGES AND SUBJECTS.

Dear Workshop Participant,

You have taken part in this Project WET Workshop as a part of a college teaching methods course, perhaps science methods or social studies methods. The activities used in the workshop were selected specifically from the Project WET Curriculum and Activity Guide to compliment this course. Three years from now, you may not be teaching in an area related to this course. However, the Guide includes activities dealing with a broad array of concepts which can be integrated into nearly every subject at every level of education from Kindergarten to College. Iowa Project WET has placed this handout in your WET Guide to remind you that it can be a resource no matter what you teach and to give you some ideas of activities to consider for concepts common in standards for several subjects. Remember also that the charts in the back of the guide and the *Charting the Course* section of each activity are designed to assist you in finding activities to suit your needs and that you can always contact the Iowa Project WET Office (319-273-7486 or iowawet@sunny.uni.edu) with questions, to find out about additional resources, or to get ideas of activities that will meet your goals.

Thank you for participating in Project WET!



SOCIAL STUDIES IDEAS

DESCRIBE PHYSICAL SYSTEM CHANGES

Elementary-House of Seasons, p. 155

Middle School-Incredible Journey, p. 161

SOCIAL AND ECONOMIC EFFECTS OF ENVIRONMENTAL CHANGES

Middle School-Nature Rules!, p.262; Aftermath, p. 289

High School-Dust Bowls & Failed Levees, p. 303

FACTORS THAT CONTRIBUTE TO COOPERATION & CAUSE DISPUTES

Elementary-Water Concentration, p. 407; What's Happening, p. 425

Middle & High School-Choices & Preferences, Water Index, p. 367; Dilemma Derby, p. 377; Perspectives, p. 397



REPRESENTATIONAL SYSTEMS & COORDINATE GEOMETRY

Elementary-Thunderstorm, p. 196

Middle School-Grave Mistake, p. 311; The Pucker Effect, p. 339; Get the Groundwater Picture, p. 136

High School-Back to the Future, p. 293; Color Me a Watershed, p. 223

MODEL /INTERPRET PHYSICAL, SOCIAL, & MATH PHENOMENA

Elementary-Reaching your Limits, p. 344; Money Down the Drain, p. 328

Middle School-Drop in the Bucket, p. 258; Reaching your Limits, p. 344; Money Down the Drain, p. 328

MATHEMATICS IDEAS

USE, AND LEARN MATH IN CONTEXTS OUTSIDE OF MATH.

Elementary-Cold Cash in the Icebox, p. 373; Easy Street, p. 382; Water Meter, p. 271

Middle & High School-AfterMath, p. 289; Back to the Future, p. 293

SCIENCE IDEAS

Elementary

Employ simple equipment and tools to gather data and extend the senses

Stream Sense, p. 191; Cold Cash in the Ice Box, p. 373; H2Olympics, p. 30

Properties of objects and materials

Water Match, p. 50; Molecules in Motion, p. 47; H2Olympics, p. 30; Hanging Together, p. 35; Is there Water on Zork?, 43; Let's Even Things Out, p. 72; What's the Solution?, 54

Organisms and environments-Water Models, p. 201

Middle School

Properties and changes of properties in matter

Adventures in Density, p. 25; Molecules in Motion, p. 47; Is there water on Zork?, p. 43; Let's Even Things Out, p. 72

Earth's history and Structure of the earth system

Old Water, p. 171; Get the Groundwater Picture, p. 136; Geyser Guts, p. 144

Populations, resources, and environments

Macroinvertebrate Mayhem, p. 322; Reaching your limits, p. 344; Sum of the Parts, 267

High School

Natural resources

Back to the Future, p. 293; A Drop in the Bucket, p. 238; The Price is Right, p. 333

Environmental quality

Sparkling Water, p. 348; The CEO, p. 300; Dilemma Derby, p. 377; Water Court, p. 413

These are just a few ideas. See the charts in the back of the book for more links between activities, concepts/teaching strategies and more.





LITERATURE RESOURCES FOR EARLY CHILDHOOD & PROJECT WET ACTIVITIES

Sharing—Read the Poem “Diving Beetle’s Food-Sharing Rules” from the 2006 Caldecott Award winning book: Song of the Water Boatman and Other Pond Poems illustrated by Beckie Prange, written by Joyce Sidman (Houghton Mifflin Company). During snack time do the KO option for **Pass the Jug**, p. 392, discuss how the poem and the activity are related.

Needs vs Wants—Do the KO option for the activity **Choices and Preferences, Water Index**, p. 367 and read the books: The Water Hole by Graeme Base and/or A Cool Drink of Water by Barbara Kerley.

HEALTH SCIENCES IDEAS

Human Needs

Lower Elementary-Upper Elementary Aqua Bodies, p. 63

Lower Elementary-Upper Elementary The Life Box, p. 76

All Ages Water Meter, p. 271

Personal Hygiene and Waterborne Disease

Upper Elementary-Middle School & Special Education No Bellyachers, p. 85

Middle School Poison Pump, p. 93

Middle School-High School Super Sleuths, p. 107

Water Quality Standards, Humans and Environment

Upper Elementary-Middle School Reaching Your Limits, p. 344

Middle School Where are the Frogs?, p. 279



ACTIVITIES THAT PROMOTE COOPERATION

Elementary **Aqua Bodies**, p. 63, Students must assist their partners

Upper Elementary-Middle School **Energetic Water**, p. 242, Small groups work together to invent a solution to a problem

Upper Elementary-Middle School **H2Olympics**, p. 30 Small groups work together as a team to complete tasks

Upper Elementary-Middle School **Water Works**, 274 Class works together to balance water resources with water needs

Upper Elementary-Middle School **Let’s Even Things Out**, p. 72 Students work together to model properties of solutions

Upper Elementary-High School **Water Crossings**, p. 421, Small groups work together to solve a problem

Upper Elementary-High School **Wet-Work Shuffle**, p. 360, Small groups work together to organize information

Middle School-High School **Water Actions**, p. 12, cooperate to develop their own projects to solve a community issue

Communicate effectively with a variety of audiences and for different purposes.

E-Stream Sense, p. 191, descriptive writing

E-Water Address, p. 122, descriptive/informative writing

E & MS-Poetic Precipitation, p. 182, creative writing

E & MS-Imagine!, p. 157, creative writing

MS-Wet Vacation, p. 206, persuasive writing

MS-Incredible Journey, p. 161 creative/informative writing

MS & HS-Nature Rules!, p. 262, informative writing

MS & HS-Water:Read about it!, p. 400, informative writing

Gather, evaluate, and synthesize data from a variety of sources

E-HS-Wishbook (Extention), p. 460

HS-Dust Bowls & Failed Levees, p. 303

Figurative and Literal Speech

E-MS-Raining Cats and Dogs, p. 435

E = Elementary
MS = Middle School
HS = High School

(most Project WET activities include students taking notes or writing ideas, summaries, or conclusions)



LANGUAGE ARTS IDEAS