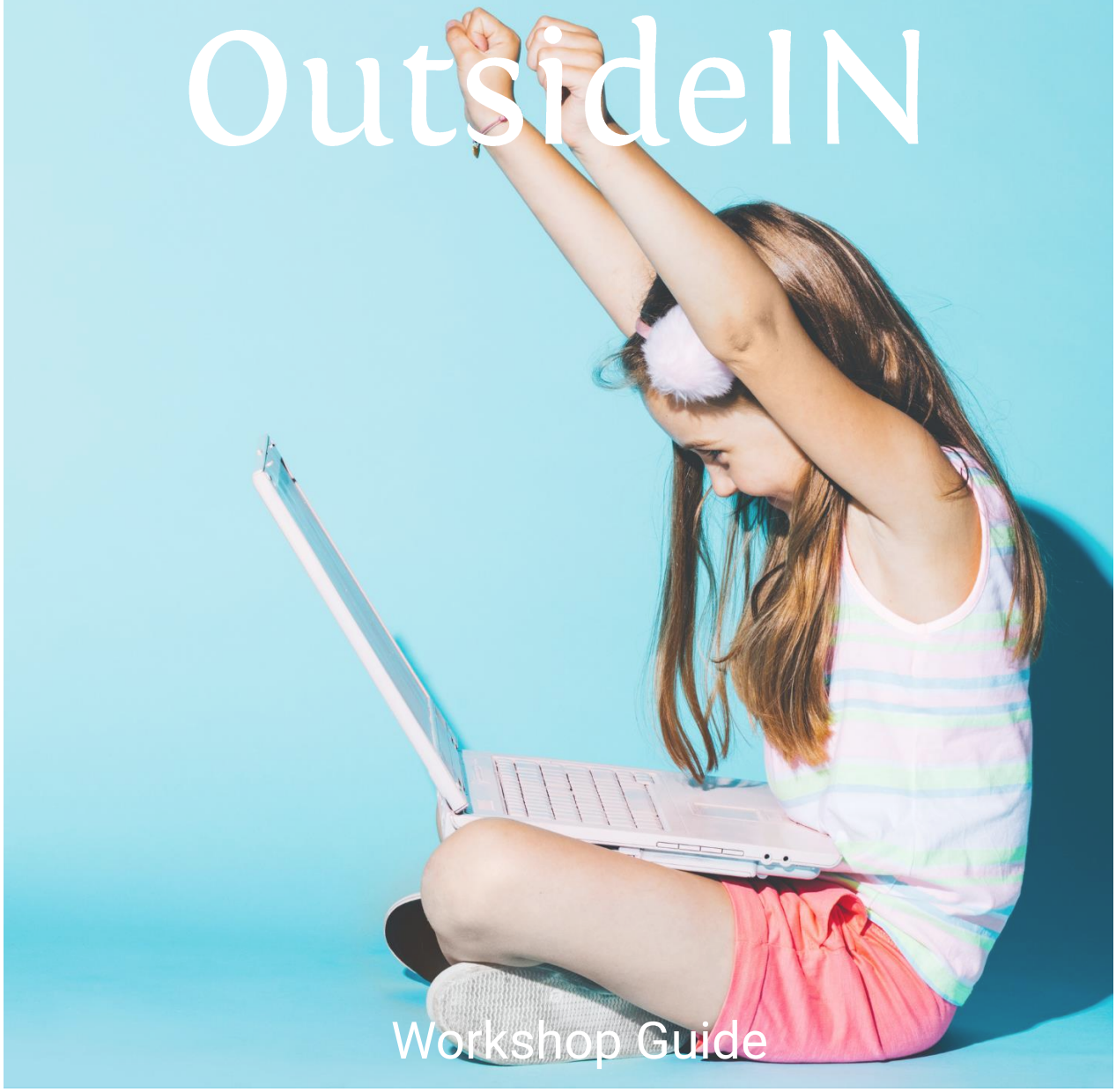
River EDUCATION

OutsideIN



Workshop Guide

Preface

About These Workshops

Welcome Teachers!

We hope this workshop guide is a helpful tool to pick and plan your online workshop with us. Online workshops can be booked individually or bundled together.

Topics we would recommend for bundled workshops:

1. Fish Ecology, Water Quality, Aquatic Invertebrates
2. Bats, Aquatic Invertebrates, Water Quality
3. Geology of Rocks & Minerals, Soil Geology, Water Quality
4. How to Get Away with Science

Our online workshops are designed for students to experience field and lab work from your classroom or their home learning environment! Throughout the workshop participants will actively participate through Kahoots!, live interactions with scientists and see live specimens or from our collection. We also encourage you to take your students out to collect samples near your school (or have them collect some near their home) to follow along with us during the workshops.

Workshop*	Grades
Aquatic Invertebrates	1,2,4,6,7, 9-12
Fish Ecology	1,2,4,6,7, 9-12
Bats	9-12
Soil Geology	1-3,7-12
Geology of Rocks & Minerals	1-5,7-12
Water Quality	5,7-12
How to Get Away with Science	7-12

*Please note that we can accommodate other topics upon request (i.e., bird ecology, terrestrial plants, aquatic plants, etc.) please enquire!

Workshops at a Glance

Descriptions

A. Aquatic Invertebrates
Students will have the opportunity to see live specimens or from our collection under the microscope as well as learn how to identify invertebrates using real scientific methods. If your school is near a body of water students can sample for their own invertebrates!

B. Fish Ecology
Students will learn about characteristics of different fish species, how to identify, measure and weigh a fish, see live specimens or from our collection and learn about native and invasive species as well as species at risk.

C. Bats
Students will learn about local bat species and their habitat requirements, they will also learn about bat monitoring techniques including how to use a bat detector, and identify echolocation of different species.

D. Soil Geology
Students will have the opportunity to dig holes, and learn about hand texturing – be ready to get dirty! Students will learn about how texture, colour, grain size and grain shape affect soils and their interactions with the environment.

E. Geology of Rocks and Minerals
This workshop explores how rocks and minerals are formed, and how to identify them. Students will have the opportunity to examine specimens using appropriate tools and identification keys.

F. Water Quality
Borrow one of our Water Rangers test kits and follow along as we explore water quality. Students will have the opportunity to test samples to measure water characteristics including pH conductivity, turbidity and more!

G. How to Get Away with Science*
Students learn about the scientific method in a ‘bigger picture’ context. What do we do with all of the data we collect as scientists? Why does it matter? Students tackle a case scenario on a topic of your choice to learn what it really takes to get away with science.

*This program takes place over the course of several sessions.