

BioBlitz: Suggested Equipment List

Provide as many of these as are appropriate for your park. Quantities are based on groups of 10-20 students.

Item	Quantity	Use
For Data Collection:		
Smartphones/tablets	1 or more per 5 students	To upload photos from mobile phones or tablets to iNaturalist mobile app; view iNaturalist field guides; use Arbor Day “What Tree is That?” plant dichotomous key app
Lenses for smartphones (optional)	5	Attachments for photographing small invertebrates or details of plants on smartphones or tablets
Digital cameras (optional)		Useful if there is a limited number of smartphones/tablets
For Invertebrate Inventories:		
Microscope (optional)	1	For temporarily observing microscopic invertebrates or observing features of invertebrates
Hand lenses	10	For temporarily observing small invertebrates
Bug viewers/magnifiers	10	For temporarily observing small invertebrates
Pop-up insect habitats	5	For temporarily housing and observing flying insects
Flying insect nets	3-4	For temporarily observing flying insects
Aquatic nets	2	For temporarily observing aquatic invertebrates
Plastic petri dishes	25-50	For temporarily observing invertebrates

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Item	Quantity	Use
Clear sandwich bags	30	For temporarily storing arthropods
Plastic or aluminum trays	5	For sorting through leaf litter
Plastic aquarium or other container	5	For aquatic macroinvertebrates, mollusks, or worms
Arthropod beating sheets (or white bed sheets)	3	For dislodging arthropods from trees, shrubs
Encyclopedia of Life (EOL) Invertebrate Trait Card sets	5	See preparation section for printing and preparing EOL Trait Cards for invertebrate taxa identification and characteristics
For Plant Inventories:		
Plastic trays	5	To place seeds, cones, leaves, etc. for students to identify
Arbor Day “What Tree is That?” dichotomous key	5	Can use mobile app if students bring tablets, or provide printed keys
Local field guides or folding guides	10	Refer to park staff for recommendations of small folding field guides for different taxa: invertebrates, plants, all taxa
For Displaying BioBlitz Data:		
Laptops + Internet access	1	To upload photos from digital cameras, if needed
Monitor	1	To display observations from iNaturalist