

Outdoor Education: Fly Fishing 10

District Name: Kamloops/Thompson
District Number: SD # 73
Developed By: Seamus Connolly
Date Developed: December 15, 2007
School Name: Westsyde Secondary
Board/Authority Approved Date: February 9, 2009

Course Name: Outdoor Education: Fly Fishing 10 (YLRA 10B)

Grade Level of Course: 10
Number of Course Credits: 4
Number of Hours of Instruction: 110
Prerequisite(s): None

Special Training, Facilities or Equipment Required:

- This course is designed as a Technology Education Course.

Course Synopsis:

This course has been designed to encourage students to explore and make better use of the outdoors, in a safe and respectful manner. Students will be taught ethical decision making skills, fish/animal/bird identification skills, conservation laws, wildlife management, fly tying and knot tying skills, practical equipment building skills, first-aid and wilderness survival skills. All of these skills put together will help students to become familiar and take advantage of the huge outdoor recreation potential available to the public in the Kamloops area.

Rationale:

This course has been developed not only to have the students learn about the outdoors but to do so in a safe and respectful manner. The objectives of Outdoor Education 10 are:

- to teach and familiarize the student in wildlife identification, management and conservation (this includes identification and habitat of wildlife species)

- to take advantage of the outdoor recreation potential which is available to the public in the Kamloops area
- to emphasize the students responsibilities to landowners, the public at large, wildlife and the environment
- to teach the student, to build equipment for outdoor use as well as proper care, safety and handling of all outdoor equipment
- to teach practical skills that will make the student's use of the outdoors more pleasurable and safe

Organizational Structure:

Course Name: Outdoor Education: Fly Fishing 10

UNIT	TOPIC	HOURS
1	Outdoor Ethics	5
2	Constructing a wooden fly-box	10
3	Trout biology and management	5
4	Manufacturing Metal Tools	5
5	Entomology	5
6	Fly Tying (8 species)	45
7	Tying knots and casting basics	5
8	History of fishing and methods, safe boating	5
9	Lake environment and ecosystems	10
10	Planning and preparing for an outdoor adventure	15
	TOTAL:	110

Unit Descriptions:

UNIT	DESCRIPTION	HOURS
1	<p>Outdoor Ethics It is expected that the student will learn:</p> <ul style="list-style-type: none"> - to emphasize the students responsibilities to landowners, the public at large, wildlife and the environment - to teach and familiarize the student in wildlife management and conservation. This includes identification and habitat of wildlife species. 	5

	<ul style="list-style-type: none"> - to familiarize themselves with provincial and regional fishing regulations, catch quotas and responsibilities through the study of the Provincial Angling Synopsis 	
2	<p>Constructing a Wooden Fly Box It is expected that the student will learn:</p> <ul style="list-style-type: none"> - practical skills that will make the student's use of the outdoors more pleasurable and safe - to build equipment for outdoor use as well as proper care, safety and handling of all outdoor equipment - safety in the wood shop through tests and practical applications - the design and construction process in making a project applicable to this course and outdoor recreation 	10
3	<p>Trout biology and management It is expected that the student will learn:</p> <ul style="list-style-type: none"> - wildlife management and conservation. This includes identification and habitat of wildlife species. - biodiversity of trout and char species and their geographic distribution - about stocking programs, hatcheries and wild populations of trout and char - importance of trout to the environmental tourism industry of the region 	5
4	<p>Manufacturing Metal Tools It is expected that the student will learn:</p> <ul style="list-style-type: none"> - practical skills that will make the student's use of the outdoors more pleasurable and safe 	

	<ul style="list-style-type: none"> - to build equipment for outdoor use as well as proper care, safety and handling of all outdoor equipment - safety in the metal shop through tests and practical applications - the design and construction process in making a project applicable to this course and outdoor recreation - to make a tying vise and associated tools (rather than buying them), and to be innovative 	
5	<p>Entomology (the study of insects) It is expected that the student will learn:</p> <ul style="list-style-type: none"> - wildlife identification, management and conservation. This includes identification and habitat of wildlife species. - the life cycles of insects and their importance in seasonal food chains pertaining to a lake environment - to chart hatch information from various resources (articles, video, internet) including personal observations - to recognize various species of insect, their life stage and seasonal importance to a lake ecosystem - to identify the anatomical parts of insects in their larval, nymph, pupal, and adult stages 	5
6	<p>Fly Tying (8 species) It is expected that the student will learn:</p> <ul style="list-style-type: none"> - to build equipment for outdoor use as well as proper care, safety and handling of all outdoor equipment - practical skills that will make the student's use of the outdoors more pleasurable and safe - to replicate the patterns of various insects using traditional as well as modern fly-tying 	45

	<p>practices</p> <ul style="list-style-type: none"> - to respect this “art form” as well as the methods and ideals presented to them from professional volunteer speakers/teachers who are going to teach them how to do it 	
7	<p>Tying Knots and Casting Basics It is expected that the student will learn:</p> <ul style="list-style-type: none"> - practical skills that will make the student's use of the outdoors more pleasurable and safe - to build equipment for outdoor use as well as proper care, safety and handling of all outdoor equipment - the art of fly casting and its uniqueness among other fishing methods - the various knots necessary in successful fly-fishing process - practical physical activities to promote a healthy lifestyle 	5
8	<p>History of fishing methods and safe boating It is expected that the student will learn:</p> <ul style="list-style-type: none"> - to emphasize the students responsibilities to landowners, the public at large, wildlife and the environment - about the developing eco-tourism potential of this region pertaining to fly-fishing - the history of resorts and lodges and of important figures/pioneers of this recreation - to take advantage of the outdoor recreation potential which is available to the public in the Kamloops area - safe boating practices, as everyone is required to have a safe boating license as of this year - proper care of boats and outdoor equipment 	5

<p>9</p>	<p>Lake Environment and Ecosystems It is expected that the student will learn:</p> <ul style="list-style-type: none"> - wildlife identification, management and conservation. This includes identification and habitat of wildlife species. - to read topographic maps and bathometric charts to further understand lake and lake ecosystems - to understand the importance of lakes on the interior plateau and their role in an ecosystem - to research lakes for their wildlife content and identify wild or stocked populations of wildlife - the value of lakes pertaining to fresh water content and their role in the water cycle - lake ecology and the flora and fauna that depend on them for existence - the effects of illegally introduced alien species on an ecosystem (ie: milfoil, shiners, carp, bullfrogs etc.) - to research and find the locations of hard to reach hike in lakes that offer unique outdoor recreation activities 	<p>10</p>
<p>10</p>	<p>Planning and preparing for an outdoor adventure It is expected that the student will learn:</p> <ul style="list-style-type: none"> - to take advantage of the outdoor recreation potential which is available to the public in the Kamloops area - to emphasize the students responsibilities to landowners, the public at large, wildlife and the environment - nutritional importance of carbohydrates, proteins, fats, vitamins and minerals and how they affect the human body - how to plan an outdoor adventure pertaining to safety, food, shelter and equipment 	<p>5</p>

	<p>needed</p> <ul style="list-style-type: none"> - the importance of “building up” to a trip, to recognize personal limits and goal setting - teamwork and planning skills in goal setting and achievement of these goals 	
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Instructional Components:

The instructional component of this course includes the use of practical skills, physical activity, applied technologies as well as scientific concepts and methodologies to achieve the outcomes of each of the course units. It involves using literature, practical knowledge of the instructor (and volunteer speakers), indoor and outdoor facilities, and various applicable demonstrations to meet the various learning styles of students and deliver a curriculum through activities and lessons.

Assessment Components:

Participation and engagement (practical projects)	=60%
Note book organization and activity log	=20%
Tests/Quizzes (weekly and term)	=10%
Projects	=10%

Learning Resources:

- Shop classrooms
- School yard, field
- Computer labs
- Outdoor equipment, provided by school and built/constructed by students
- Guest speakers/teachers (Mo Bradley and members of various outdoor organizations)
- Video
- Books and Magazine Articles

Additional Course Information: