PADDLE AND ROWING SPORTS

While participants are engaged in a paddling or rowing activity, they are getting lots of health benefits. The information in this packet details those benefits, from the muscles paddle and rowing sports develop to the way they make people feel.

This packet supplements what you will be doing during paddle and rowing sports. You do have to get participants to recognize that these activities are great for their physical and emotional health, but you can do that in the way that best works for your group and you. These materials offer lots of different ideas for incorporating the health components into your already fabulously planned session.

Read the Facilitator's Guide in order to understand Frost Valley's physical activity initiative, to effectively use the materials in your session and for ways encourage physical activity among your participants in and beyond Frost Valley.

This chart, also featured in the Facilitator's Guide, highlights each of the sections in this module. This can guide you in selecting what to focus on during the session.

| Cives a profile of the health honofits of naddle and rewing | | | |
|---|--|--|--|
| Gives a profile of the health benefits of paddle and rowing | | | |
| sports | | | |
| Explains how paddle and rowing sports are aerobic and | | | |
| strength building | | | |
| Points out where paddle and rowing sports fit within the | | | |
| recommended 60 minutes of daily exercise | | | |
| · | | | |
| Names the parts of the body that paddle and rowing sports | | | |
| use | | | |
| Names the specific muscles that paddle and rowing sports | | | |
| build | | | |
| Lists the overall health benefits of paddle and rowing sports | | | |
| Explains the emotional benefits of paddle and rowing sports | | | |
| Day 1: Offers suggestions for introducing the healt | | | |
| benefits of paddle and rowing sports during the first day | | | |
| of the session | | | |
| Following Sessions: Gives lots of ideas for reinforcing | | | |
| participants' knowledge of the health benefits of paddle | | | |
| and rowing sports during the remaining sessions | | | |
| Offers ideas for games and other activities to build | | | |
| participant awareness of paddle and rowing sports' health | | | |
| benefits | | | |
| Generates interest in paddling and rowing activities | | | |
| Offers a simple questionnaire about participants' views on | | | |
| paddle and rowing sports and whether they will continue | | | |
| doing them beyond Frost Valley | | | |
| | | | |

DESCRIPTION

Paddle and rowing sports—kayaking, canoeing, paddle boarding, and row boating —are moderate-intensity exercises that enhance aerobic fitness, strength, flexibility, and endurance. They exercise major muscle groups in different ways and also provide anon-weight-bearing cardio workout. They help you exert lots of energy — and you can exert even more if you paddle or row faster!

These sports also have mental and emotional benefits. They make you feel peaceful because of the sound and feel of the water and the comforting pull and rhythms of the paddle or oar. And they connect you to the outdoors and introduce you to interesting natural outdoor sights.

There are differences between paddling and rowing, which you might discover:

| PADDLING | ROWING |
|--|---|
| Uses paddles | Uses oars |
| Torso drives the paddling stroke | Legs and arms drive the rowing stroke |
| Kayaks, canoes, stand-up paddleboards, | Traditional rowboats (and more modern |
| rafts | sweep-oar boats, sculls) |
| Can use one paddle on one side to keep | Need two blades (oars), one on each side, |
| the boat straight | to keep the boat straight |
| Paddlers face forward | Rowers face backward |
| Paddles are not attached to the boat | Oars are attached to the boat |

The sports are similar in many ways. Individually, they focus on different parts of the body.

Standard row boating Rowing is an excellent way to exercise. In addition to strengthening arm, leg, back, and core muscles, it builds stamina and provides a good cardio workout. An experienced rower in an efficient rowboat can keep up a steady rate of four to five miles an hour!

Traditional canoeing Paddling a canoe develops upper-body strength, builds core muscles, and improves aerobic fitness. The main muscles used in canoeing, as you pull the paddle against the water, are those in the upper back, forearms, and abs. You don't usually use your leg muscles when canoeing. Rigorous paddling can get the heart and breathing rates up! Canoeing in rougher waters helps you burn more energy. And you exert lots of energy lifting and putting down canoes and carrying them to and from the water.

Kayaking This paddle sport provides a full-body workout —back, chest, midsection (abs), arms, and legs. The legs contribute to a good kayak stroke, transferring the body's power through the kayak to make it move through the water. They also work with the hips to help turn and stabilize a kayak.

What's the difference between a canoe and a kayak? Typically, a canoe is an open boat in which paddlers sit on a seat. A canoe paddle normally has one blade. In a kayak the paddler sits on a low seat with their legs extended in front. A kayak paddle is bladed at both ends.

There are different types of paddle boarding. You might try each one to see how they affect the body in somewhat different ways and how each type of paddling requires a different relationship and interaction with the water.

Prone paddle boarding There are two types of prone paddle boarding:

Belly paddle boarding (lying-down paddling) Belly paddling uses the basic paddle stroke, with the arms as the paddles. It's a bit like freestyle swimming: You move each arm forward to grab the water and pull through it and down to the side of the paddleboard. Paddling while lying on the board builds your biceps and triceps.(Prone paddling does put a lot of stress on the shoulders and neck because you hold your head above shoulder level.)It's also easier to negotiate tougher waters, as in the ocean. Some say that belly paddling is similar to running or biking up a steep hill. It is a great endurance sport, keeping your heart at a low, steady rate.

Kneel-down or knee paddle boarding: This is similar to belly paddling, but you are on your knees paddling with both arms at the same time and really working your back, shoulders, and core muscles, especially the abs. Some say that knee paddling is faster than prone paddling, which means it's good for developing balance. In knee paddling, you can keep your neck at shoulder level (parallel), reducing the strain on the neck and shoulders.

Stand-up paddle boarding (SUP): When stand-up paddle boarding, you stand on the paddleboard and use a paddle to move through the water. Your legs, as well as your core abdominal and back muscles, get a significant workout because they keep you balanced on the board. (Working to maintain balance also increases your focus.) It develops your arms and shoulders because you use them to paddle through the water. And you strengthen your torso by twisting as you paddle. This type of paddling provides a great cardio workout.

TYPE OF ACTIVITY: Aerobic/strength-building

Paddle boarding of all types provides a great cardio workout and builds a variety of muscles. It's also great for developing balance and flexibility.

WHERE IT FITS WITHIN THE RECOMMENDED AMOUNT OF PHYSICAL ACTIVITY

Paddle and rowing sports can fulfill the cardio (aerobic) and strength-building portion of the suggested 60 minutes of daily activity. You can add warm-ups and exercises that build core muscles before getting into a boat or on a paddleboard.

| PARTS OF BODY USED | MUSCLES AFFECTED (See Terms to Know on page 16 of the Facilitator's Guide.) | HEALTH BENEFITS |
|---|---|--|
| Legs Arms/forearms Back Buttocks Chest Torso Shoulders Hands | Abs (Abdominals) Biceps Rotator cuff muscles Triceps Traps (Trapezius) Lats (Latissimusdorsi) Rhomboid Hamstring Quads (Quadriceps) Heart Lungs | Improves balance Reduces stress Improves joint strength Builds muscular strength (especially core muscles) Improves cardiovascular fitness Improves posture |

HOW IT MAKES YOU FEEL

- Relaxes and calms (from being on the water, being outside, the rhythmic motion of oars or paddles)
- Helps you feel one with nature
- Improves balance and flexibility
- Gets you to love the feel of the water on your face and body

SUGGESTIONS FOR WAYS TO INCORPORATE

DAY 1

- 1. When introducing the rowing and paddling sports program, begin by asking participants:
 - Who has rowed a boat? Who has paddled a canoe or a kayak?
 - Have you been on a paddleboard? How did you paddle (lying on your belly, sitting on your knees, standing up)?
 - If you've tried two or more, which of these sports do you like best? Why?
 - What do you think of rowing a boat, paddling a canoe or kayak, and/or paddling a paddleboard as exercise? What kind of a workout does each give you?
 - What parts of the body do you think get the most benefit from paddling and rowing sports?

- 2. Point out that rowing and paddle sports are great physical activities, and especially fun because they get you outside and in the water. Share the benefits of these activities as a whole, building on what participants answered in the first step.
- 3. For each activity that you model, have participants observe and point out which parts of the body/which muscles are working. If there is time during the first session, you might model each activity and then have participants try it out to identify the parts of the body that are doing the work and likely to get the most physical benefit.
- 4. If participants are going to do several types of rowing and paddling exercises during the session, it might be fun for them to note similarities and differences among the activities in a large Venn diagram (see Sample Venn Diagram, below) or other type of chart. Or they can simply discuss the differences each day. For example, if they paddleboard on their bellies one day, then stand-up paddle the next, they can discuss the differences between the two exercises —and even debate which one gives the best workout! They can determine which of the exercises builds fitness for other sports. This way they can see how different activities support each other in terms of overall physical development.

FOLLOWING SESSIONS

- 1. Couple teaching with games that work on specific skills, target specific parts of the body so participants can build strength and experience a good "workout," and help participants to improve other aspects of paddle and rowing sports—balance, coordination, etc. See Game Ideas (these can be modified, especially for paddle boarding) below.
- 2. Have participants do some pre-paddling or rowing exercises that build important muscles, skills, endurance, etc. See Workout Ideas, below.

SOME FUN IDEAS

- 1. Encourage participants to try a new activity at camp and to compare it with a paddle or rowing sport that they have participated in.
- 2. Challenge participant teams to design a skills-building prone/kneel-down paddleboard game. They can work on this after the session and during recreational boating and paddling sports time, then teach it to their peers over the remaining days of the session.
- 3. One way to measure the amount of physical activity done in a day is by the number of steps taken. The average step rate for the number of miles is 2,000 steps per mile (about 30 minutes of continuous activity). A pedometer counts steps for activities like walking, hiking, and running. There is a way to calculate other physical activities' step equivalents based on minutes. Look at the comparisons for some paddle and rowing sports:

| KAYAKING | 10 min. | 15 min. | 20 min. | 30 min. | 60 min. |
|------------|---------|---------|---------|---------|---------|
| # of STEPS | 1,661 | 2,492 | 3,322 | 4,983 | 9,966 |

| CANOEING | 10 min. | 15 min. | 20 min. | 30 min. | 60 min. |
|------------|---------|---------|---------|---------|---------|
| # of STEPS | 2,182 | 3,273 | 4,364 | 6,546 | 13,092 |

There are recommended guidelines for the number of steps that constitutes moderate to intense physical activity and can add up to the recommended 60 minutes of daily activity. For young people, 9,000 steps is the magic number.

Participants can chart the steps they have taken in a day, including one of the rowing/paddling activities noted above, general walking (using a pedometer), and other activities. Post the Step Conversion table on page 12of the Facilitator's Guide for participants to see, and/or distribute it for them to refer to at the end of each day. Have participants share their step rates, looking at increased activity, the effect on their bodies, etc.

ROWING AND PADDLING SPORTS: Interesting facts

Kayakmeans "man-boat" (also known as "hunter's boat"). The word comes from the word *qajaq*in the Greenlandic Inuktitut language. Eskimos used the kayak to hunt seals."

For many different peoples, from Native American tribes to the Polynesians, the canoe had a variety of uses —primarily transport, trade, and warfare.

The first official canoeing and kayaking sporting events were held in the mid-19th century. *

In 1924 in Paris, flat-water canoeing was featured at the Olympic Games as a demonstration sport. It became an Olympic an official Olympic sport in 1936 in Berlin.

The first person to cross the Atlantic Ocean in a kayak was 29-year-old World War I veteran Franz Romer. In 1928, the German-born kayaker left Lisbon, Portugal, and traveled 4,000 miles to arrive in Puerto Rico.^{vi}

Rowing was first used as a means of transport in, Greece, Rome , and ancient Egypt. vii

Galleys, used as war vessels and ships of state, were common in ancient Egypt (on the Nile River) and subsequently in the Roman Empire (on the Mediterranean) from at least the 25th century to the 4th century B.C.E. Rowing was also an important adjunct to sailing for the Anglo-Saxons, Danes, and Norwegians in their military forays on the water.

Rowing on the River Thames in England, in small boats and barges, began as early as the 13th century. There was soon a company of watermen transporting passengers up, down, and across the Thames in and near London.

Thomas Edward Blake is credited with the creation of the very first paddleboard in 1926. He is said to have modeled his board on an ancient wooden Hawaiian surfboard called the *olo* (used by Hawaiian royalty). Blake hollowed out his surfboard by drilling it full of holes and then re-covering the entire board. Blake broke many paddleboard racing records.^x

Paddle boarding picked up again in the 1980s, during which time Craig Waterman designed a new stock paddleboard called the Waterman, which many paddleboard racers used.xi

Women first competed in the Olympic canoeing program in 1948.xii

Birgit Fischer holds the records for being both the youngest and the oldest Olympic canoeist to win gold, at ages 18 and 42. She holds 12 medals.xiii

EVALUATION

| 1. | How FUN would you say (<u>name ofpaddle or rowing sport</u>) is? Choose the number that shows what you think. | | | | | |
|---|--|-------------------|---------------|------------|-------------|--|
| <u>A I</u> | ot of fun 3 | Pretty fun 2 | A little 1 | fun | No fun | |
| 2. | 2. How HEALTHY would you say (<u>name of paddle or rowing sport</u>)is? Choose the number that shows what you think. | | | | | |
| \/e | ry healthy | Pretty healthy | Δ little | healthy | Not healthy | |
| • | 3 | Pretty healthy 2 | 1 | Tioditi'iy | 0 | |
| 3. | 3. Which part of your body would you say got the best workout from (<u>name of paddle or rowing sport</u>)? | | | | | |
| | Legs Torso Arms/forear Shoulders Back Hands Heart Lungs Whole body | | | | | |
| 4. How often might you (<u>name of paddle or rowing sport</u>) again while at Frost Valley? Choose the number that shows what you think. | | | | | | |
| Ve | ery often 3 | Pretty often 2 | Rarely 1 | Never 0 | <u> </u> | |
| 5. How often might you (<u>name of paddle or rowing sport</u>) again after leaving Frost Valley? Choose the number that shows what you think. | | | | | | |
| Of | ten (everyda | v) | 3 | | | |
| | metimes (on | | 2 | | | |
| | | once a month) | 1 | | | |
| Ha | ardly ever (on | ce a year) | 0 | | | |

GAME IDEASxiv

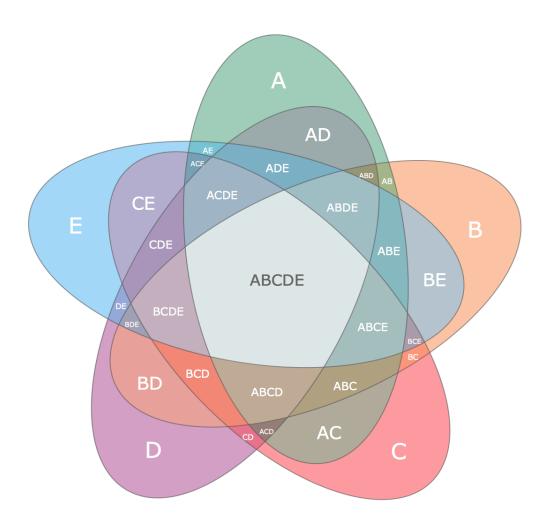
- Give Me Divide the participants into two or more teams. A leader sits at the finish line, about 100 feet away. At the leader's signal, one paddler from each team races toward him or her using the technique and equipment the leader designates, for example: "Give me someone paddling backward wearing two helmets." Or the leader may ask for two paddlers moving together without using paddles, two paddlers using only one boat, or any other silly variation. The first team across the finish line wins. The game can be spiced up with a box of props like silly hats, colorful costumes, or items to balance on the decks of the boats.
- Piano Keys Line up all the boats in the water facing in the same direction, with no paddles. Each person holds onto the next boat to keep the boats in line. The paddler at one end climbs out of his or her boat and tries to walk across the lined-up boats and back without falling in. The boats are not a stable platform, so expect lots of participants to end up in the water.
- POY/YOP One paddler is "it" and tries to tag (hand-to-bow) everyone else. Once tagged, a paddler is "frozen"; he or she raises his or her paddle in the air and says "POY, POY, POY" continuously until someone who is not "it" unfreezes him or her by tagging hand-to-bow. The game ends when everyone except "it" is frozen. The YOP part of the game is the reverse of POY everyone paddles backward, and "it" must tag the stern of each person's boat. Anyone frozen says "YOP, YOP, YOP" until unfrozen.
- Simon Says/Follow the Leader/Mother May I/Red Light, Green Light Popular with younger participants and easily adaptable to water.
- Sharks and Minnows Establish the boundaries of the game. One
 participant is the shark; he or she tries to tag the other participants, who
 are minnows. Each tagged minnow becomes a shark and tries to tag other
 minnows. Only boat-to-boat tags are allowed. (You can also limit tagging
 to bow-to-stern only or allow hand-to-boat tagging; the idea is to avoid
 tagging with the paddle.) Eventually, there are lots of sharks and only one
 minnow paddling for his or her life.
- Relay Race This is better suited for older, more competitive participants. Divide participants into two teams and onshore, arrange some gear, like spray skirts, paddles, and boats. Everyone starts off wearing only shorts, T-shirts, Personal Flotation Devices (PFD), footwear, and whatever warm clothing the conditions require (Participants wear a PFD throughout the game as a safety precaution.)The first member of each team races to gather his or her gear, then paddles to a designated point and back. He or she then takes off the gear and tags the next team member, who does the same thing.
- Scavenger Hunt This game works in almost any location where a variety
 of natural treasures can be found. Divide participants into groups of twofour boats each. Give each group a list of objects to find (the lists can be
 the same or different). Objects can be as simple as a rock, a leaf, a
 clamshell, a gull feather, or a bottle cap!This game takes the focus off
 paddling skills and puts it on teamwork, getting places, and learning about
 nature.

WORKOUT IDEAS_{XV}

- Arm Raise Stand up straight with your arms by your sides, palms flat and facing in, feet shoulder-width apart. Raise your arms so they are horizontal to the body at shoulder height, palms facing downward. Hold for 15 seconds. Lower your arms to your sides. Repeat 12 times.
- Arm Rotation Stand up straight with your feet shoulder-width apart. Raise
 your arms so they are horizontal to the body at shoulder height, palms
 facing upward. Swing your arms together in front of the body, keeping
 them horizontal and rotating your hands so the palms end facing
 downward. Hold for 15seconds.Reverse the movement back to the
 original position and hold for 15seconds. Repeat 12 times.
- Back Strengthening Bend low at the waist and stretch your right arm up and out toward the left. You should feel the pull on the right side of your lower back. Repeat with the left arm. Do 10 repetitions daily for a few weeks, gradually working up to 30 reps(increase at your own pace). Try these daily; you'll begin to feel the tone in your lower back.
- Torso Twist This stretches the torso. It can be done almost anywhere, while standing or sitting in a chair. Bend your elbows and tuck your arms comfortably near your waist. Twist your torso to one side and then the other, keeping your chest and shoulders in a line. You'll feel it in your lower back muscles and lower shoulder blades. Do at least 20 repetitions a few times a day. Stretching your torso adds flexibility and strengthens your paddling.
- Crawl Get down on your hands and feet so that your core is thoroughly engaged. Choose a point 50 yards in front of you, and crawl toward it as quickly as possible. When you reach your target, stand up and take a 15-second rest. Then get back down and crawl back. Do three-five repetitions. If you're fit, you might be able to do 10 repetitions in a row without extending your rest time.
- Shoulders Arm Circle Stand up straight with your feet shoulder-width apart. Raise your arms so they are horizontal to the body at shoulder height, palms facing downward. With straight arms, move your hands in small circles, about one foot in diameter. Complete 10 circles. Repeat in the opposite direction. Lower your arms and rest. Raise arms again and move hands in large circles, about two feet in diameter. Complete 10 circles. Repeat in the opposite direction.xviii

SAMPLE VENN DIAGRAM

This is an overlapping model, which allows the various similarities, whether among all of the sports or some, to be viewed.



Physical Activity Curriculum: Paddling and Rowing

ENDNOTES

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