

Backpacking stoves 101

Resources to use for this activity.

Backpackers Field Manual pages 55-62 and 351-62

Whisperlite maintenance video –MEC

<http://www.mec.ca/AST/ShopMEC/GiftIdeas/HikingCamping/PRD~4004-857/msr-whisperlite-stove.jsp>

Rei Video

<http://www.rei.com/learn/expert-advice/backpacking-stove.html>

Answer the following questions using the resources/materials..

1. Identify what the 3 basic types of backpacking stoves and what they burn. Also outline the pro's and con's for each

Watch the REI Video and read information on this site.

<http://www.rei.com/learn/expert-advice/backpacking-stove.html>

a. Stove 1

Stove	Burn time
Examples of stoves	

Pro	Con

b. **Stove 2**

2. Stove	Burn time
Examples of stoves	

Pro	Con

c. **Stove 3**

3. Stove	Burn time
Examples of stoves	

Pro	Con

2. How Gasoline/Kerosene Liquid –fuel stove work

Watch this video and take notes first.... At least 5 important points..

<http://www.youtube.com/watch?v=lbjujlB8o-U>

1. _____
2. _____
3. _____
4. _____
5. _____

Part A. Become familiar with the parts of your stove.

1. Use your Stove Manual to identify all the parts of the stove. Complete the diagram. Once finished take the stove test. You must know all the parts for your stove test. Refer to following website

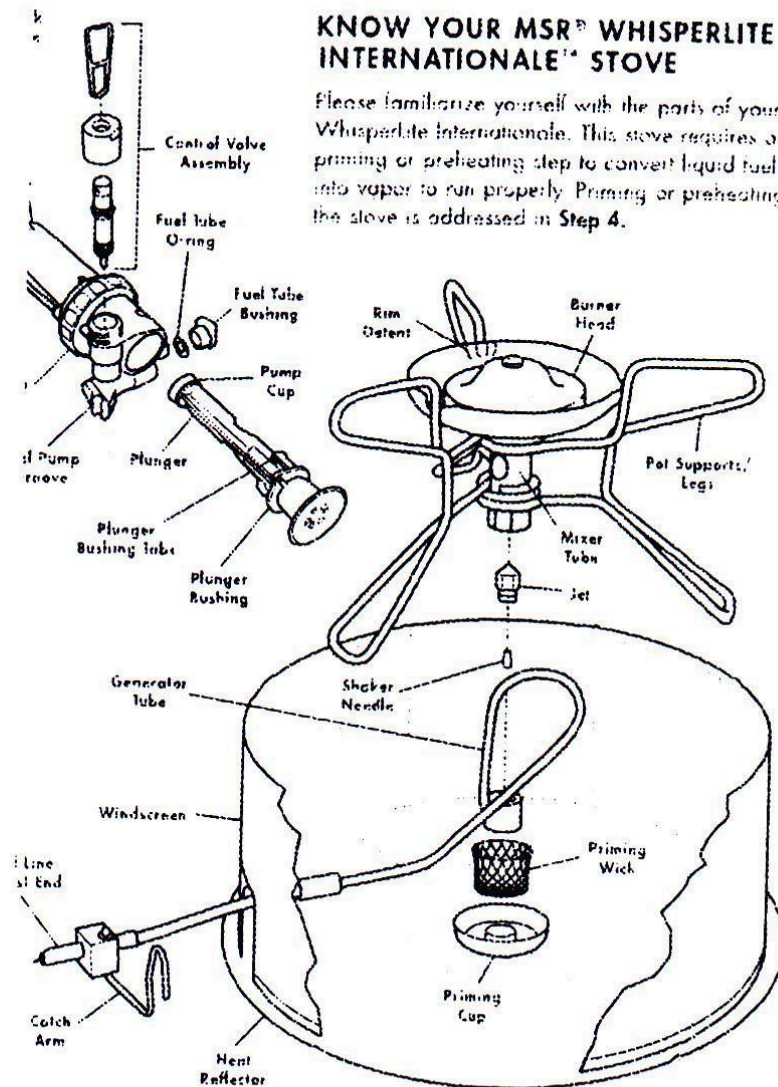
2.

http://media.cascadedesigns.com/pdf/msr_whisperlite_manual_en.pdf

What does MSR stand for? _____

KNOW YOUR MSR® WHISPERLITE INTERNATIONALE™ STOVE

Please familiarize yourself with the parts of your Whisperlite Internationale. This stove requires a priming or preheating step to convert liquid fuel into vapor to run properly. Priming or preheating the stove is addressed in Step 4.



PREHEAT STOVE

Part B. Fuel Bottle

3. What type of fuel does it burn? _____
4. Can you use any other fuel bottle with you MSR Whisperlite Stove? Explain

5. Identify and explain the steps you need to go through to prepare your fuel bottle.
 - a. _____

- b. _____
- c. _____

Part C. Set up Stove

6. Identify 1 or 3 warnings when setting up the stove
- a. _____

Part D. Connect Stove and Pump

7. Identify the 3 steps necessary to do this.
- a. _____
 - b. _____
 - c. _____
8. Identify 3 warnings.... Explain why these are important.
- a. Identify one _____

Part E. Preheat Stove

9. Pre-heat the stove. Explain the 3 steps necessary to pre-heat the stove
- a. _____
 - b. _____
 - c. _____
10. Identify 3 warnings when lighting this stove. Why are these important to know?
- a. _____
 - b. _____
 - c. _____

Part F. Turn Stove On

11. Identify the one of the 3 steps necessary to turn the stove on
- a. _____
12. Identify the warning and explain why this is necessary.
- a. _____

Part G. Use the Cook stove

13. Identify and explain the steps necessary to use the stove
- a. _____
 - b. _____
 - c. _____
14. Identify 1 of the 3 warnings and explain why they are important to know
- a. _____

Part H Turn Stove off

15. Identify the 3 steps necessary to turn the stove off.
- a. _____
 - b. _____
 - c. _____

16. Identify 1 of the 3 warnings and explain why they are important to know.

a. _____

Part I Stove Maintenance

17. Identify the methods needed to maintain your stove

a. Clearing the jet with the shaker needle

- i. _____
- ii. _____
- iii. _____

b. Cleaning the jet and fuel line

- i. _____
- ii. _____
- iii. _____
- iv. _____
- v. _____

c. Remove shaker Needle and use it to clear Jet Orifice from top to bottom

d. Scour Fuel line

- i. _____
- ii. _____
- iii. _____
- iv. _____

e. Reassemble stove

Now read page56 of Field manual to see if you missed anything...

Lighting other stoves page57

Identify 2 important points about lighting the following stoves

Alcohol Stoves

1. _____

2. _____

Compressed Gas Stoves

1. _____

2. _____

Solid Fuel Stoves

1. _____

2. _____

Review... What are the 5 most important rules/guidelines to remember when lighting the stove page57

1. _____
2. _____
3. _____
4. _____
5. _____

What to do if your stove catches fire..... Identify the 3 most important steps to remember

1. _____
2. _____
3. _____

White gas used in the Whisperlite can be dangerous.....what do you need to do if this toxic chemical gets into your

Eyes

Effect _____

Treatment _____

Skin

Effect _____

Treatment _____

Inhalation (breath)

Effect _____

Treatment _____

Ingestion (Swallow)

Effect _____

Treatment _____

The following will be an oral quiz read and practice page 61 -62

Operating the stove.....

1.

Priming the stove

1.

Turning the stove on

1.

Turning the stove off....

Now you are ready..... **Complete the stove test** ...on my blog to practice.... Take stoves apart..... name parts.....You get 85% you are ready to work on the stove.... Good luck.....

Next.....

Light stove and boil water..... then you are done... congratulations.....

1. **Choosing a stove**

<http://www.mec.ca/AST/ContentPrimary/Learn/HikingAndCamping/StovesAndFuel/ChoosingAStove.jsp>

2. **Burn times**

<http://www.mec.ca/AST/ContentPrimary/Learn/HikingAndCamping/StovesAndFuel/StoveOutputAndBTURatings.jsp>

3. **Canister repair... and what to consider**

<http://www.mec.ca/AST/ContentPrimary/Learn/HikingAndCamping/StovesAndFuel/CanisterStoveRepair.jsp>

4. **Liquid stove (MSR) repair tips.....**

<http://www.mec.ca/AST/ContentPrimary/Learn/HikingAndCamping/StovesAndFuel/LiquidFuelStoveRepair.jsp>