

# ENERGY EXPERT PATCH Tiger & Wolf Workbook

**Consumers Energy** 

Count on Us

PROVIDING ENERGY EDUCATION TO STUDENTS IN THE COMMUNITIES WE SERVE. THAT'S OUR PROMISE TO MICHIGAN.

> For more great energy resources visit: www.ConsumersEnergy.com/kids

© 2013 Consumers Energy. All rights reserved.

## **Hey there Scouts!**

Ready to earn your Energy Expert patch? This book will help you become an expert at:

Page 1- Electric Safety

Page 2- Natural Gas Safety

**Page 3- Respect the Flags** 

Page 4- Sources of Energy

**Page 5- Electricity Generation** 

Page 6- Energy Careers

© 2013 Consumers Energy. All rights reserved.

Leaders:

This book is designed to be completed as a group. Please visit <u>www.ConsumersEnergy.com/scouts</u> to download the leader guide that includes the answers to this book, talking points for discussion, and how to order your patches.

Questions? Feel free to email us at education@consumersenergy.com





3 things can happen if you touch electricity, you can be:



\_\_\_\_\_ allow electricity to flow.

\_\_\_\_\_ stop the flow of electricity.

**Do this with your pack:** pretend a jump rope is a downed power line. Act out what you should do, then draw a picture of it here.

#### **Remember!**

Electricity, people, water DON'T mix! Look up for POWER LINES when climbing a tree or flying a kite Stay away from downed power lines and call Consumers Energy right away (800) 477-5050

© 2013 Consumers Energy. All rights reserved.

or more great energy resources visit: <u>www.ConsumersEnergy.com/kids</u>

## **NATURAL GAS SAFETY**

Can you see natural gas if it's leaking?

Circle one: Yes / No



What can happen if natural gas is leaking? Write your answer.

Natural gas smells like \_\_\_\_\_

### **Take the Right Steps**

Write the safety phrase under the right picture, then act out what you should do if you smell natural gas!











or more great energy resources visit: <u>www.ConsumersEnergy.com/kids</u>

© 2013 Consumers Energy. All rights reserved.

## **RESPECT THE FLAGS**

Flags are used to mark

that are buried underground.

Before you start digging, you must always call MISS DIG. Connect the dots to find out the phone number!





## **SOURCES OF ENERGY**

\_\_\_\_\_ energy sources we will

never run out of.

\_\_\_\_\_ energy sources once they are used, they are gone.

Draw what you think these energy sources look like

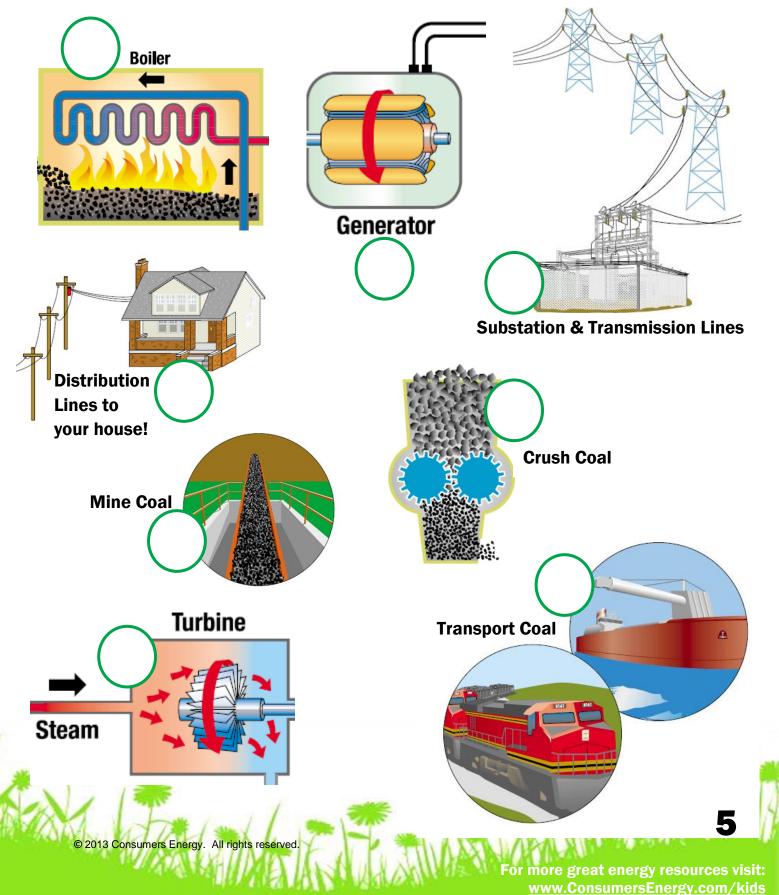
	COAL		NUCLEAR
•	This rocky source comes from old dead plants It must be mined deep out of the ground and sent on ships and trains	6	<ul> <li>This source comes from uranium atoms splitting</li> <li>These power plants have large cylinder shaped stacks</li> </ul>
	<u>HYDRO</u>		WIND
	<ul> <li>This source uses water to turn turbines on rivers and dams</li> <li>Consumers Energy has 13 hydro power plants in Michigan</li> <li>© 2013 Consumers Energy. All rights reserved.</li> </ul>		<ul> <li>This source uses wind to turn really tall turbines</li> <li>Michigan is the 14<sup>th</sup> windiest state in the country</li> </ul>

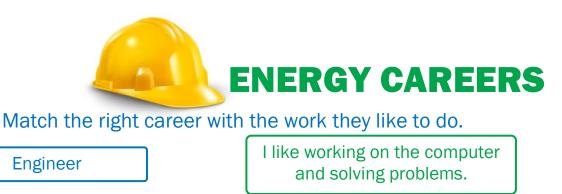
THE FLOW AND A REPORT OF A

r more great energy resources visit: <u>www.ConsumersEnergy.com/kids</u>

## **ELECTRICITY GENERATION**

How is electricity made? Put the pictures in the right order.





I like writing and talking in front of groups of people.

I like to design things, and I'm good at math.

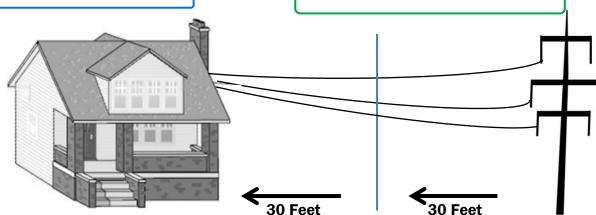
I like to talk to people and help solve problems.

I like to be outside, ride in vans, and help people.

I like to walk, work independently and meet new people.

I like to work with trees and help the environment.

I like to be outside, climb high and ride in trucks.



Forestry employees at Consumers Energy help to make sure trees are planted far enough away from power lines to be safe. **Draw the right size trees in the right places at this house.** 

© 2013 Consumers Energy. All rights reserved.

**Customer Service** 

Representative

Executive

Communications

Information

Technology (IT)

Electric Lineworker

Forestry

Natural Gas Worker

Meter Reader

or more great energy resources visit: <u>www.ConsumersEnergy.com/kids</u>