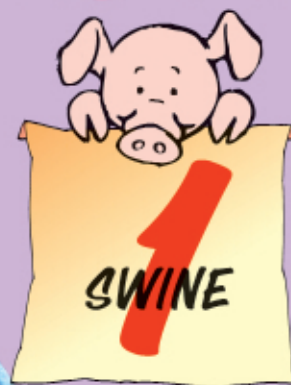




National 4-H Curriculum
BU-08065

The Incredible Pig



Swine Youth
Activity Guide
Grades 3-5

Name _____

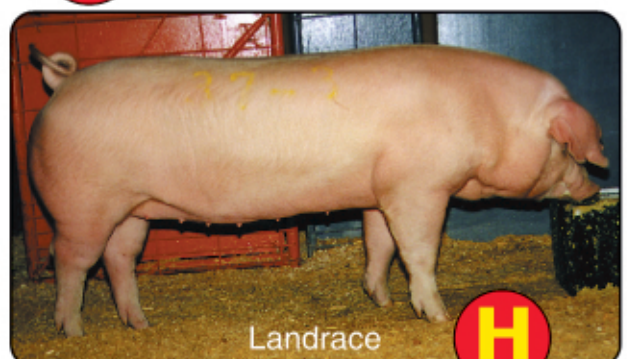
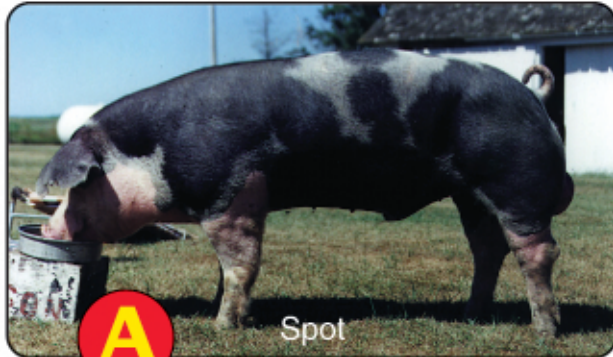
County _____



REVIEWED & RECOMMENDED
National 4-H Curriculum

Swine Breeds

Use with *Name That Breed* activity
in the first chapter of *Swine 1, The Incredible Pig*.



Explore more at
www.4-hcurriculum.org
National 4-H Curriculum

For more on
swine look for
these other
guides in
this set.



Going Whole Hog

- Chap. 1 Selection and Judging**
Planning a Breeding Program
Understanding Breeding Systems
Judging Breeding Gilts
- Chap. 2 Management and Health**
Facilities for Farrowing/Finishing
Practicing Baby Pig Management
Maintaining Herd Health
- Chap. 3 Nutrition and Carcass**
Balancing a Ration
Carcass Quality
Preparing for Action
- Chap. 4 Beyond the Pen**
Thinking of the Neighbors
Finding a Career
Gaining Experience
Exploring International Markets

Putting the Oink in Pig

- Pork Chop Class
Pork Quality Standards
- Chap. 1 Selection and Judging**
Breed Characteristics
Judging Oral Reasons
Judging Pork Cuts
- Chap. 2 Management and Health**
Keeping Health Records
Exploring Swine Diseases
Waste and Your Environment
Expanding Your Facilities
- Chap. 3 Nutrition and Carcass**
Finding the Feed Stuffs
Exploring the Digestive System
How Does the Fat Measure Up?
- Chap. 4 Beyond the Pen**
Developing a New Pork Product
Building Character
Discovering Swine Careers
Locating Swine in the U.S.

Group Activity Helper's Guide

- Developing Life Skills
Youth Learning Characteristics/
Science Standards
Teaching and Learning Experientially
Recognition Model
Evaluating Impact
- Chap. 1 Selection and Judging**
Selecting a Pig Project
Puzzling Pig Parts
- Chap. 2 Management and Health**
TLC for Pigs
Feasting on Food Safety
The Sick Pig
Responsible Use of Medication
- Chap. 3 Nutrition and Carcass**
Boning Up on the Skeleton
Exploring a Meat Counter
- Chap. 4 Beyond the Pen**
Animal Well Being
Conducting a Swine Quiz Bowl
Running a Swine Skillathon
Organizing a Swine Showmanship
Clinic
Preparing to Say Good-bye
- Swine Project Meeting Ideas
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Swine Resources

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Note to the Project Helper

Congratulations! A young person has asked you to serve as his/her helper for this level of the Swine Project. You may be a family member, project leader or advisor, teacher or a neighbor. Your role in guiding, encouraging and rewarding progress is very important. How you choose to be involved will often determine the success the youth has in developing important life skills while learning what pigs are all about. The youth's interest in swine is the vehicle leading to life skill development. You'll find that these guides are designed to encourage active involvement and exploration rather than simply providing answers.

Your Role

- Review this guide and the *Swine Helper's* guide.
- Support youth in his/her efforts to set goals and complete Swine 1 Achievement Program.
- Serve as a resource person to help connect youth with the community, resource materials and others knowledgeable about the project.

Youth Activity Guides

This project activity guide is a part of the 4-H "Skills for Life" Animal Science Series. The three youth guides in the swine series are designed for beginner, intermediate and advanced learners respectively. Youth may work at the level most appropriate for them. Each guide includes an achievement program to provide challenging activities, a way to expand project experiences beyond the animal and a means to recognize youth for what they have accomplished. The activities in this guide are specifically designed to help youth develop skills in decision making, relating to others, communicating with others and learning to learn.

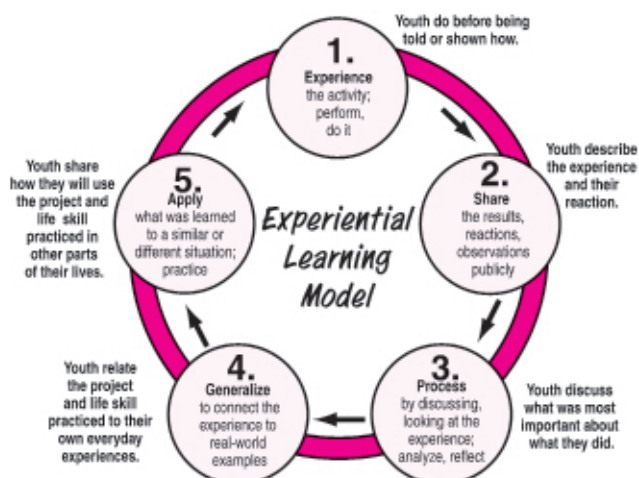
Each guide is organized into four chapters:

1. Selection and Judging
2. Management and Health
3. Nutrition and Carcass and
4. Beyond the Pen.

Swine Helper's Group Activity Guide

The fourth piece of the swine series, *Swine Helper's Group Activity Guide*, provides additional learning-by-doing activities that can be adapted to the family, the classroom, 4-H project groups, clubs or other groups. You'll also find information on characteristics of youth, additional ideas for project experiences and helpful hints on developing life skills.

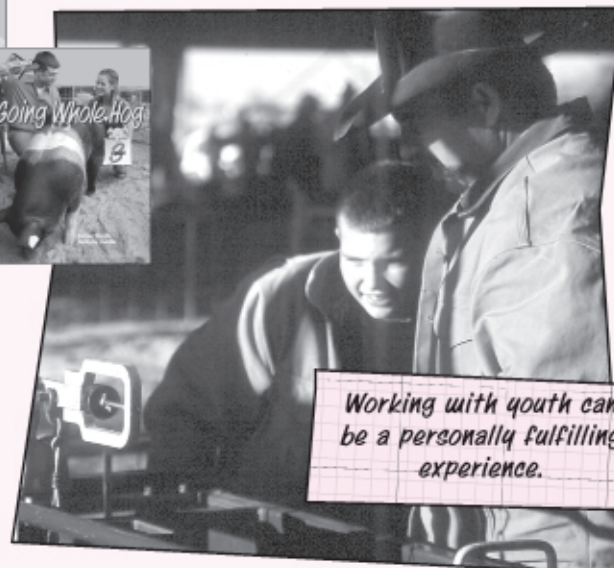
Experiential Learning Model



Pfeiffer, J.W., & Jones, J.E., "Reference Guide to Handbooks and Annuals" © 1983 John Wiley & Sons, Inc. Reprinted with permission of John Wiley & Sons, Inc.

This five-step model is included in each activity in this series. As you can see, the youth first attempt the activity on their own. After the youth do as much as they can and answer the questions, you then meet together and discuss: What they did? What was important about what they did? How does what they did relate to their lives? And finally, how might they use the life and project skills practiced in the future? Sample questions are included following each experience for the youth to answer and the two of you to discuss. Your ability to ask additional thought-provoking questions and to clarify and expand the youths' ideas will add to the educational experience.

*Good luck in your role
as project helper!*



*Working with youth can
be a personally fulfilling
experience.*

Having Fun with the Swine Project

Are you ready to learn more about pigs?

Through the activities in this guide, you will have many interesting and exciting challenges. You'll learn about pig parts, breeds, cost of raising pigs, how to care for your pigs and much, much more. If you don't already have pigs, some of the activities will help you decide whether or not you want to take pigs as a 4-H project.

Each activity asks you to do something. Don't be afraid to jump right in, and don't give up if the activity doesn't work out the first time. You're still learning, right? The most important thing is to try. Once you try, then think or talk about what happened or didn't happen and why.

Learning about pigs isn't all you will be doing. You'll also be learning about yourself, too. Many of the things you'll learn are skills you'll use in your life, such as:

- Speaking to groups
- Working with other people
- Making decisions
- Being responsible
- Planning and organizing
- Learning to learn

Tape a picture of you and your project helper here.

Swine 1 Project Guidelines

- Do a minimum of seven activities in Level 1 of the Swine Achievement Program each year.
- Complete Level 1 within three years.
- Practice and develop the life skills of relating to others, making decisions, learning to learn and communicating with others.
- Participate in a minimum of three of the learning experiences listed on Setting Goals each year.
- Increase your swine knowledge and skills.

Swine 1 Achievement Program

While you are having fun doing the activities, you'll also be completing Level 1 of the Swine Achievement Program. There are three levels of this program. One is included in each of the swine project activity guides. This program will help you set goals, record your successes and be recognized for your good work

Your Project Helper

On your team supporting you and making learning more fun is your project helper. This person may be a parent, swine breeder, project leader or advisor, a neighbor or an older friend who knows about pigs. The choice is yours. As you do the activities, you'll discuss with your helper what you did and the questions in the "Talk it Over" part of each activity. Sometimes your helper will need to work with you to identify resources, including people, organizations, events, magazines and books necessary to complete an activity. Once you have successfully completed each activity, your helper will date and initial your achievement program. Write the name and phone number of your project helper here:

My Project Helper

Phone #

E-mail

Setting Goals

My Swine Project Goals

What do you know?

Here's an easy way to tell if you learned something new and developed important project skills. BEFORE you start doing the activities in this guide, indicate what you know now, then indicate what you know AFTER you complete the Swine Project Achievement Program. You may be surprised how much you learned! Share the results with your helper.

Begin each statement with the words "I know how to..." then circle 1 (not at all), 2 (somewhat) or 3 (to a great extent).

	Before	After
Identify needed feed for a pig	1 2 3	1 2 3
Identify eight swine breeds.	1 2 3	1 2 3
Place a class of market hogs and present reasons on the placings.	1 2 3	1 2 3
Complete an income and expense budget.	1 2 3	1 2 3
Design a hog facility.	1 2 3	1 2 3
Identify 10 parts of a pig's digestive system.	1 2 3	1 2 3
Complete a pig examination.	1 2 3	1 2 3
Describe the name, location and preferred types of cooking for 10 pork cuts.	1 2 3	1 2 3
Give a presentation on how to groom and train a pig for a show.	1 2 3	1 2 3
Develop a well-written paragraph expressing appreciation.	1 2 3	1 2 3
Record what a person does at work.	1 2 3	1 2 3

Name _____

Pigs _____

Breed(s) _____

What I want to do and learn in Swine 1:

1. _____

2. _____

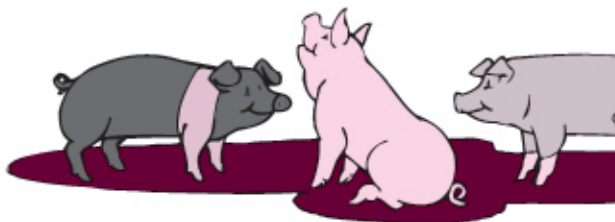
3. _____

4. _____

Learning Experiences

Check (✓) when you do any of the following.
Plan to do at least three each year.

Year	Year	Year	Activity
			Give a demonstration
			Tour a swine operation
			Attend a swine project meeting
			Attend a swine show
			Take pictures of a pig
			Exhibit at a fair
			Attend a swine clinic
			Participate in a swine skillathon
			Be a member of a swine quiz bowl team
			Participate in swine showmanship



Swine Project Highlights

Date and list exciting things you do and learn.

Date

Swine 1 Achievement Program

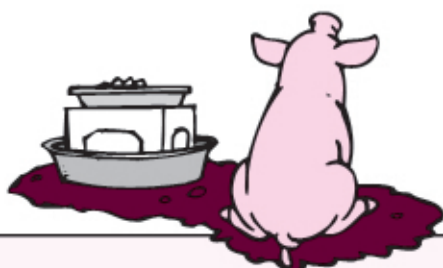
Guidelines

- Do at least seven of the required and optional Achievement Program activities each year.
- Complete at least 21 of the required and optional activities within three years to complete this achievement program.
- Have your project helper date and initial the activities as you complete them.

Required Activities

Activities	Date Completed	Helper's Initials
Chapter 1 Selection and Judging		
Naming the Breed		
Learning the Parts		
Judging Market Hogs		
Chapter 2 Management and Health		
Meeting the Budget		
Designing Facilities		
Feeding the Pig		
Examining a Healthy Pig		
Chapter 3 Nutrition and Carcass		
Identifying Pork Cuts		
Discovering Pork By-products		
Preparing Pork		
Chapter 4 Beyond the Pen		
Looking Your Best		
Showing a Pig		
Writing a Thank-you Letter		

Tape a picture of you and your project animal/s here.



 **More challenges**
Optional Activities

Select and do your choice of the More Challenges in Level 1 or make up your own. Record the page and number of each one you complete and discuss with your helper.

[illegible]

Plan your own activity.

Date_____ Helper's Initials_____

Plan your own activity.

Date	Helper's Initials
------	-------------------

Plan your own activity.

Date_____ Helper's Initials_____



Selection and Judging

Naming the Breed

Pigs come in different colors, shapes and sizes. Pigs that have similar colors, shapes and sizes are grouped together into breeds. In this activity, you will learn about the eight most popular breeds of pigs in the United States.

Activity: Match swine breed names with descriptions.
Swine Skill: Recognizing swine breeds
Life Skill: Recognizing differences
Success Indicator: Identifies eight swine breeds.

Breed Word Bank

Berkshire
Chester White
Duroc
Hampshire
Landrace
Poland China
Spot
Yorkshire

Your Challenge

Look at the color photographs of the eight different swine breeds on the inside front cover of this guide. Read the descriptions of the breeds below. Match the correct name and letter to each swine breed photo. Find and tape a miniature picture in the small box of each breed with its description. Your helper can check your answers in the *Swine Helper's Guide*.

My favorite breed _____

1. Breed _____

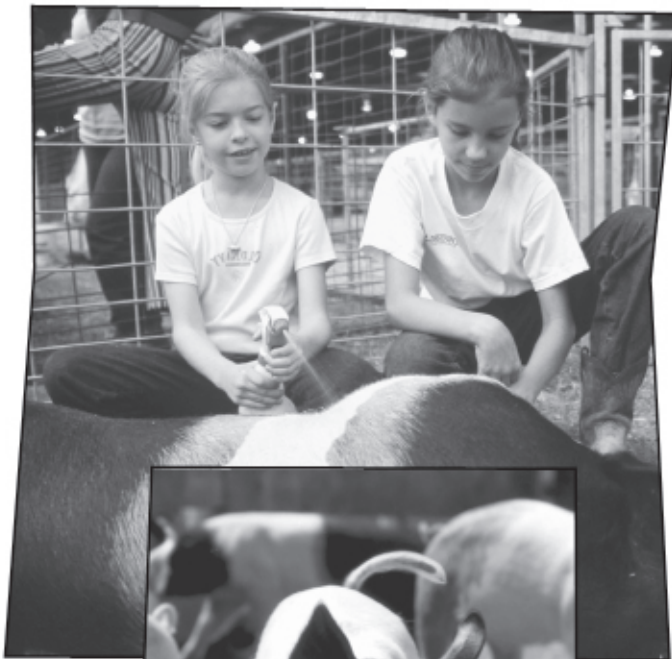
Picture

These black bodied pigs have six white points, including their nose, tail and feet. They have erect short ears and dished snouts. Legend says this breed was discovered by Oliver Cromwell's Army at Reading (the county seat of the shire of Berks) in England over 300 years ago. They are known for providing hams and bacon of excellent flavor. They were first brought to America in 1823. This breed has had great influence on the swine industry. Much improvement has been made through testing and genetic evaluation to meet the demand for fast, efficient growth, reproductive efficiency, and leanness.

2. Breed _____

Picture

Known as the durable mother breed, these pigs have white bodies with long, droopy ears. This breed originated in Chester County, Pennsylvania. More than 60,000 animals are recorded by this breed's association each year. Because of their mothering ability, durability and soundness, they have maintained their popularity with pork producers.



3. Breed _____

Tape a picture of this breed here

Picture

These red pigs with drooping ears are the second most recorded breed of swine in the United States and a major breed in many other countries. Their color can range from a very light golden, almost yellow, to a very dark red that approaches mahogany. The growth of the breed is in part due to characteristics such as the ability to produce large litters, longevity in the female line, lean gain efficiency, carcass yield and product quality as a terminal sire. Their advantage in muscle, combined with their rapid growth, has positioned the breed as an outstanding terminal sire choice.

4. Breed _____

Tape a picture of this breed here

Picture

These black hogs have white belts across the shoulders, covering the front legs around the body. They have erect ears and are a heavily muscled. They are the third most recorded swine breed in the United States. They are leaders in leanness and muscle, with good carcass quality, minimal amounts of backfat and large loin eyes. Their ability to produce winning carcasses is unequalled, and they continue to set the standard by which all other terminal sires are evaluated. Hampshire females are known as great mothers and excellent pig raisers and have extra longevity in the sow herd.

5. Breed _____

Tape a picture of this breed here

Picture

These white pigs with large drooping ears are the fourth most recorded breed in the United States as well as a major breed in many other countries. Their purebred females are known for their ability to produce large litters over for an extended time. Boars are aggressive and sire large litters that combine growth, leanness and other desirable carcass traits. This, along with their outstanding maternal traits, have made them leaders in swine operations throughout the world.

6. Breed _____

Tape a picture of this breed here

Picture

The black and white bodied pigs may have a white nose, tail and feet. They have medium-sized, droopy ears and originated in the Miami Valley of Ohio in Butler and Warren counties. This breed stands as the embodiment of perfection in the swine industry.

7. Breed

Tape a picture of this breed here

Picture

These white-bodied pigs have black spots and medium-sized, droopy ears. Part of their ancestry can be traced back to the original Poland China hogs of Warren County, Ohio. This breed has continued to improve in feed efficiency, rate of gain and carcass quality, as can be proven in testing stations throughout the country. They are popular with farmers and commercial swine producers for their ability to transmit fast-gaining, feed-efficient, meat qualities to their offspring.

8. Breed

Tape a picture of this breed here

Picture

This white breed with erect ears is the most recorded breed of swine in the United States and Canada. They are muscular with a high proportion of lean meat and low backfat, in addition to being very sound. They are productive, but more performance-oriented and durable than ever. The goal of the breed is to be a source of durable mother lines that can contribute to longevity and carcass merit. The motto "The Mother Breed and a Whole Lot More" indicates improvement and change in the industry.



Knowing swine breeds and their characteristics is important in the selection of a show pig.



Talking it over

Share What You Did

- Describe how you learned to recognize the different swine breeds.
- What breeds did you like best? Why?

Process What's Important

Why are some breeds more popular than others? Why are more crossbreeds raised than purebreds?

Generalize to Your Life

How can learning to recognize differences help you make decisions? How do differences in people's personality or work styles make a group better?

Apply What You Learned

How does knowing about swine breeds help you decide which breed is best for you?



Interviewing someone who knows about different breeds helps in decision-making.



More challenges

1. Write or call three breed associations listed on the Swine Resource page for more information and pictures of your favorite breeds.
2. Make a Mix-and Match Pig Game. Photocopy and cut the eight pictures and breed descriptions. Now you have your own match game! Share the information about the breeds with at least two friends and let them play the game, matching breeds to descriptions.
3. Interview three people about what they think makes a gilt or sow a good mother. Write a brief skit showing a "good" mother pig. Have fun and use your imagination. Remember most skits have a beginning, middle and end with a surprise in them somewhere.

Learning the Parts

Activity: Identify swine body parts.
Swine Skill: Selecting swine
Life Skill: Learning to learn through games
Success Indicator: Completes the pig parts crossword puzzle.

Learning the parts of a pig is an important first step to being able to choose top quality pigs, give oral reasons in judging and communicate with others in the swine industry. Doing a

pig parts crossword puzzle is a fun way to get acquainted with the parts, but you may have to do more to memorize all of them.

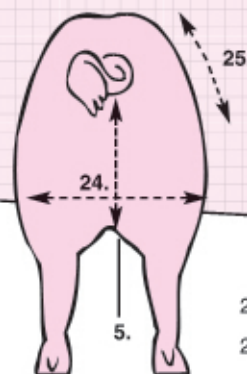
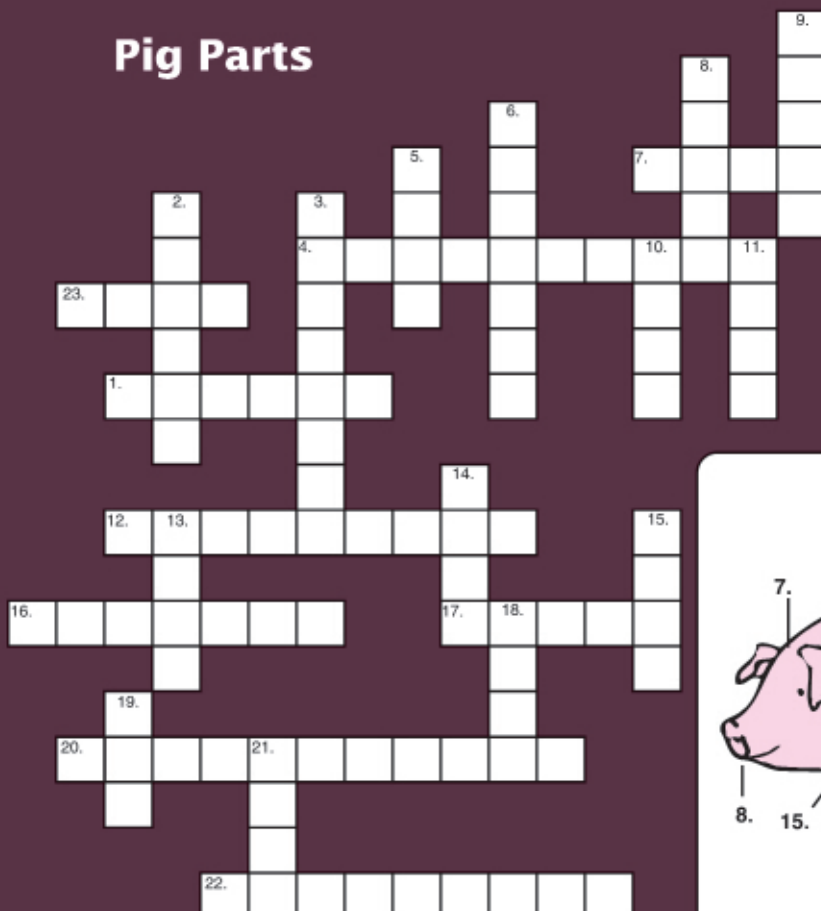
Your Challenge

Complete the crossword puzzle below. Match the number at the beginning of each puzzle column to the number on the pig diagrams shown to the right. Now, identify the part name for the list of parts and fill in the puzzle boxes with the correct name and spelling. A list of pig body parts is provided. You may not need to use all of them.

List of parts:

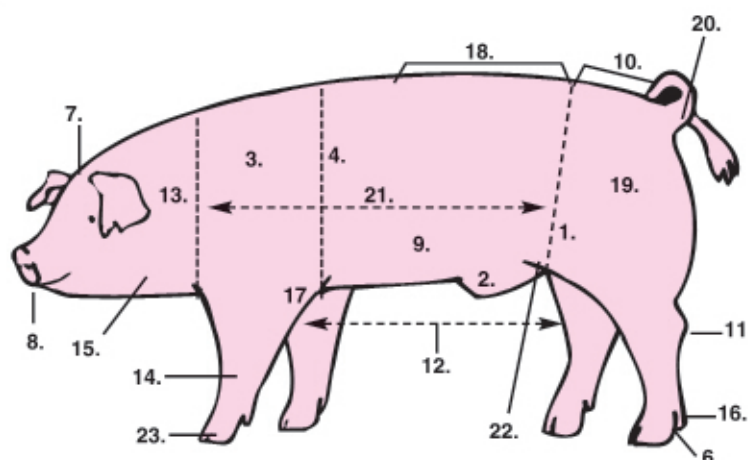
Back	Hock	Seam
Belly	Jowl	Sheath
Cheek	Knee	Shoulder
Dewclaw	Loin	Side
Elbow	Neck	Snout
Foreflank	Pastern	Stifle
Foreleg	Poll	Tail setting
Ham	Rear flank	Toes
Heartgirth	Rump	Underline

Pig Parts



Bonus:

24. _____
 25. _____





Talking it over

Share What You Did

- Describe the most difficult thing about learning the parts? The easiest?
- What new parts did you learn?

Process What's Important

How do you think a farmer learns to recognize his animals? A doctor the parts of the body? An actor a script?

Generalize to Your Life

When else have you used a game to help you learn something?

Apply What You Learned

How will knowing the way you learn best help you in other situations?

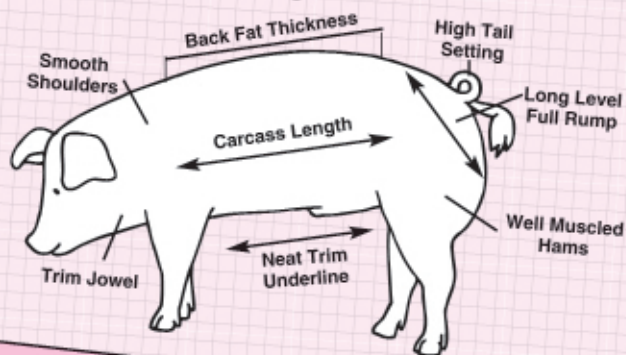


Knowing the parts of the hog helps to pick the best pig.



Ideal Pig

The ideal pig is deep at the heart and long sided. It walks and stands wide and is larger than the average pig of the same age. It is well-muscled, showing natural thickness over the top, and has a plump, thick ham. The ideal pig walks free and easy with good slope to its front pasterns. It is nearly level across the top and has a level ramp with a high tail setting.



More challenges

1. With a friend, correctly identify and locate at least 20 parts on a live pig. Then ask someone who raises pigs how the different parts should look on a good pig.

2. Play at least two of the "pig parts" games described in your *Swine Helper's Guide*.