



**CANADA**  
4-H Ontario

[www.4-hontario.ca](http://www.4-hontario.ca)

## 4-H ONTARIO PROJECT



**Agricultural Hazards Project**

**RECORD BOOK**

## **The 4-H Pledge**

I pledge my Head to clearer thinking,  
my Heart to greater loyalty,  
my Hands to larger service,  
my Health to better living,  
for my club, my community and my country.

## **The 4-H Motto**

Learn To Do By Doing

## **4-H Ontario Provincial Office**

111 Main Street, Box 212  
Rockwood, ON N0B 2K0  
TF: 1.877.410.6748  
TEL: 519.856.0992  
FAX: 519.856.0515  
EMAIL: [inquiries@4-hontario.ca](mailto:inquiries@4-hontario.ca)  
WEB: [www.4-HOntario.ca](http://www.4-HOntario.ca)

## **Project Resource Information:**

Original Project Written by Owen Thornton and updated in 1996 by Ted Whitworth  
Updated by: Elizabeth Johnston , 4-H Ontario  
Layout by: Mary-Kathleen Dunn  
Date: March, 2017

Thank you to the 4-H Agricultural Hazards Advisory Committee members who assisted with the creation of this resource:

Morgan Baker, South Simcoe 4-H Association  
Sandy Miller, Account Manager, Industry & Partner Relations – Agriculture, Workplace Safety & Prevention Services (WSPS)  
Edna White, Kawartha Lakes-Haliburton 4-H Association  
Thomas White, Kawartha Lakes-Haliburton 4-H Association

4-H Ontario grants permission to 4-H Volunteers to photocopy this 4-H project resource for use in their local 4-H program.

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**CANADA**  
4-H Ontario



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# INTRODUCTION

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## Record Keeping – Why?

Record Books are to document time and money spent, what you have learned, your ideas, memories and what you liked and didn't like. Your Record Book also....

- Helps you set goals for this project
- Has space to record important dates, your elected executive and the names and contact information of your leaders and club members
- Is a great way to get and stay organized

Down the road when you look back on your 4-H projects these books will be able to remind you what you learned so you can use those skills later in life. It will bring back memories of the project, your 4-H friends, your story and thoughts at the time of the project. You will never forget because this book will act as a reminder! It will also be useful at the Achievement Program, when looking at your progress and when reviewing your accomplishments.

## How do I organize my materials?

1. Make your records neat and easy to read. This will make it easier to find information later on, and to share your information with others.
2. Use a three ring binder or duotang to hold your materials and divide your information into sections using dividers. This will keep things from becoming lost and will make it easier to find what you need later on. This will also allow you to add extra pages later.

## How do I keep good records?

1. Keep track of activities throughout the meetings, as you complete different parts of the project. It's often difficult to remember things that happened in earlier meetings.
2. Make sure the information you write in your Record Book is complete and accurate. If you're not sure about something, ask your leader for help before writing it in your book. You can also consult people in your community or do some research on your own. If you borrow information from someone or someplace else, make sure you write down where you found it.

*Remember that this is YOUR Record Book so make it your own! And, remember to bring your Record Book to every meeting!*

[illegible]

# WHO'S WHO

Club President:\_\_\_\_\_ Ph. # / E-mail:\_\_\_\_\_

Vice President:\_\_\_\_\_ Ph. # / E-mail:\_\_\_\_\_

Secretary:\_\_\_\_\_ Ph. # / E-mail:\_\_\_\_\_

Treasurer:\_\_\_\_\_ Ph. # / E-mail:\_\_\_\_\_

Press Reporter:\_\_\_\_\_ Ph. # / E-mail:\_\_\_\_\_

## Meeting Dates:

	DATE & TIME	PLACE	NOTES (Things to bring, remember, etc)
<b>Meeting 1</b>			
<b>Meeting 2</b>			
<b>Meeting 3</b>			
<b>Meeting 4</b>			
<b>Meeting 5</b>			
<b>Meeting 6</b>			
<b>Achievement Program</b>			

LEADER NAME & CONTACT INFORMATION	LEADER NAME & CONTACT INFORMATION

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# MEMBER EXPECTATIONS & GOALS

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Why did you join the Agricultural Hazards club?

What is one goal that you want to achieve in this project?

Do you have any ideas for fun things to do during the project?

Do you have any ideas for an Achievement Program for the Agricultural Hazards Project? (Keep in mind that an Achievement Program should include the community in some way).

## Member Responsibilities

- Be a current paid member of 4-H Ontario
- Attend at least 2/3 of the meeting time allotted for this project
- Complete the Record Book for this project. Bring it with you to each meeting!
- Put your Record Book in a binder or duotang so you don't lose any of the pages
- Complete any other projects as required by the club leaders.
- *Remember the more you put into your 4-H club the more you will get out of it!*

## ROLL CALLS - IN MY OPINION...

	ROLL CALL	MY ANSWER
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		
<b>5</b>		
<b>6</b>		

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# PROJECT SUMMARY

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## The Agricultural Hazards Project

### A. Member Comments

1. What did you gain from taking this project?
  
  
  
  
  
  
  
  
  
2. Which meeting or topic was the most/least interesting? Why?
  - a. Most:
  
  
  
  
  
  
  - b. Least:
  
  
  
  
  
  
  
  
  
  3. Comment and/or give suggestions for improvements on the overall project (eg. Activities, tours, achievement program plans, member presentations, special activities, judging information).
  
  
  
  
  
  
  
  
  
  4. What interests would you like to explore through future 4-H projects?

### B. Parent/Guardian Comments:

### C. Leader Comments:

*This project has been completed satisfactorily!*

Member: \_\_\_\_\_ Leader: \_\_\_\_\_

Date: \_\_\_\_\_ Leader: \_\_\_\_\_



# SAMPLE JUDGING CARD

## Judging – Judging Card

### **Criteria:**

1. Is the item made properly?
2. Does the item serve the purpose for the class it is in?
3. Is it the proper size for its purpose?
4. Does it smell and/or look like it should?
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

**\*\*note:** additional requirements can be added to list specific to the item being judged

### **Giving Reasons:**

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

# Stop Think Act

Stop Think Act is a simple but powerful tool. Over 90 percent of accidents are due to people not taking the time to consider how their actions may put them at risk.

Stop Think Act helps you take that first step to see hazards and protect yourself and others from them.

The message is very straightforward and can be adapted to any situation at home, work or play.

Stop

Think

Act

**Before and during a task**

- What could go wrong?
- How bad could it be?
- Has anything changed?

▪ Do I clearly understand the task?

▪ Am I physically and mentally ready?


▪ Do I have the right tools and equipment?

▪ Make it safe.

▪ Use the right tools and procedures.

▪ Reduce risks.

**Stop if it can't be done safely!**



WCC0670sm 17 03

Use Stop Think Act to remind yourself to put on your helmet or other personal protective equipment, work with a buddy, ask for clearer instructions... use Stop Think Act to find ways to make it safe.

## Have you ever...

- Ridden a horse without a helmet?
- Groomed your calf without wearing work boots?
- Jumped from the second step of your tractor?
- Used a welder or grinder inside a farm building
- Worked with or near flowing grain?
- Worked on or around operating equipment?
- Mixed chemicals without using the right personal protective equipment?

Think about the tasks or chores you do that may pose risks if not done safely.

## For example, working near a power take-off:

**Stop:** What could go wrong? How bad could it be?

- Clothing or shoe laces can quickly get entangled resulting in severe injury or death.
- I could be very severely injured, or worse.

**Think:** Do I clearly understand the task? Am I physically and mentally ready?

- A PTO shaft spins between nine and 16 times a second and is two feet off the ground.
- I need to ask for help if I don't understand or feel uncomfortable.
- If I feel unsafe or unsure, I should stop what I'm doing and tell an adult or supervisor.
- I may be tired, hungry, distracted... and I should **never** step over a PTO.

**Act:** Make it safe. Reduce risks.

- Walk around the entire unit instead of taking the shortcut.
- Better yet, turn the unit off as well.

4-H Ontario, Workplace Safety & Prevention Services (WSPS) and Esso encourage you to Stop Think Act before beginning a task to make sure it can be done safely.

For more info on Stop Think Act and/or health and safety resources for farming, call 1-877-494-9777 or visit [www.wsps.ca/farmsafety](http://www.wsps.ca/farmsafety)



## ACTIVITY #2 - SENSATIONAL COMPARISON

Compare your senses to that of a typical animal's senses and fill in your guesses below.

### HUMAN

### ANIMAL

#### VISION

(clear or blurry)

#### VISION

(black and white or colour)

#### VISION

(vision in degrees)

#### SMELL

(check which one has the best)

#### TOUCH

(check which one has the best)

#### HEARING

(check which one has the best)

#### TASTE

(check which one has the best)

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## ACTIVITY #4 - JUDGING CARD

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### FOOTWEAR - SAFE HANDLING OF ANIMALS

#### Judging – Judging Card

**Criteria:**

1. Is the item made properly?
2. Does the item serve the purpose for the class it is in?
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

\*\*note: additional requirements can be added to list

**Giving Reasons:**

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

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## ACTIVITY #5 - ANIMALS DESERVE RESPECT

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### Demonstration

#### Seven Important Factors When Working With An Animal

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

## ACTIVITY #8 - DEADLY GASES

Example Jar – Water

Jar A \_\_\_\_\_

dihydrogen oxide (water)

NAME

\_\_\_\_\_

wells, ponds, troughs

WHERE FOUND

\_\_\_\_\_

year round

GREATEST RISK PERIOD

\_\_\_\_\_

lungs, filling, drowning

PHYSICAL EFFECTS

\_\_\_\_\_

ON PEOPLE

H<sub>2</sub>O

CHEMICAL CODE

\_\_\_\_\_

Jar B \_\_\_\_\_

Jar C \_\_\_\_\_

\_\_\_\_\_

NAME

\_\_\_\_\_

\_\_\_\_\_

WHERE FOUND

\_\_\_\_\_

\_\_\_\_\_

GREATEST RISK PERIOD

\_\_\_\_\_

\_\_\_\_\_

PHYSICAL EFFECTS

\_\_\_\_\_

ON PEOPLE

\_\_\_\_\_

CHEMICAL CODE

\_\_\_\_\_

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## ACTIVITY #9 - OTHER DEADLY PLACES

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1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

[illegible]



## ACTIVITY #11 - JUDGING CARD - DEADLY GASES

### Criteria:

1. Is the item made properly?
2. Does the item serve the purpose for the class it is in?
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

\*\*note: additional requirements can be added to list

### Giving Reasons:

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

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## ACTIVITY #12 - JUDGING CARD - PPE EQUIPMENT

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### Judging – Judging Card

#### **Criteria:**

1. Is the item made properly?
2. Does the item serve the purpose for the class it is in?
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

\*\*note: additional requirements can be added to list

#### **Giving Reasons:**

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

# ACTIVITY #19 - FLAMING WHAT?

## FLAMING WHAT EXERCISE SHEET

1. S M U P O K E

2. THERE'S  $\frac{\text{ROOF}}{\text{FIRE}}$

3.  $\begin{array}{ccccc} & & 10 & & \\ 10 & & & & 10 \\ & 10 & \text{HEAT} & 10 & \\ & 10 & & & 10 \\ & & 10 & & \end{array}$

4. T H G U A R D

5. FIRE HYD RANT

6. HEATHEATHEATHEATHEATHEATHEATHEATHEATHEATHEATHEAT

7. PHd  
BA BURNS  
MD

8. MT H<sub>2</sub>O TANK

## ACTIVITY #21 - JUDGING CARD

### Fire Extinguishers

#### Judging – Judging Card

##### **Criteria:**

1. Is the fire extinguisher is good working order?
2. Is it missing any parts?
3. Has it been used? Has it been maintained?
4. \_\_\_\_\_
5. \_\_\_\_\_

**\*\*note:** additional requirements can be added to list

##### **Giving Reasons:**

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

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## ACTIVITY #29 - JUDGING CARD - PTO SHAFTS

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### Judging – Judging Card

#### **Criteria:**

1. Is the PTO shaft is good working order?
2. Is it missing any parts?
3. Has it been maintained?
4. Is it safe to use?
5. \_\_\_\_\_

\*\*note: additional requirements can be added to list

#### **Giving Reasons:**

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

## ACTIVITY #32 - JUDGING CARD - TRACTOR SAFETY

### Judging – Judging Card

#### Criteria:

1. Is the tractor in good working order?
2. Is it missing any safety shields?
3. Has the tractor been maintained?
4. Are there safety stickers to point out danger areas?
5. \_\_\_\_\_

\*\*note: additional requirements can be added to list

#### Giving Reasons:

I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

I place \_\_\_\_\_ first because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

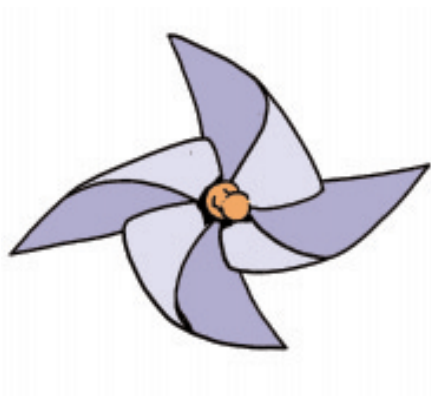
I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ over \_\_\_\_\_ because.....

I place \_\_\_\_\_ 4th because.....

For these reasons, I place this class of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

Official Placing \_\_\_\_\_.

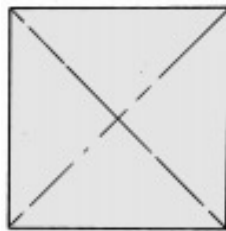


## Pinwheel Instructions

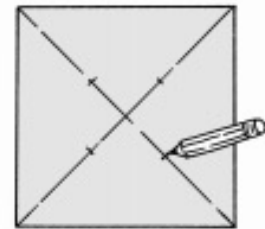
March is a great time to make pinwheels. Pinwheels are easy to make. As long as you begin with a square, the size of your pinwheel is up to you. If you decide to make a big pinwheel, be sure your dowel is longer.



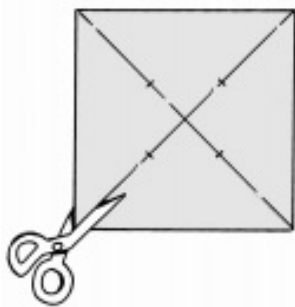
1. Begin with a square of paper.



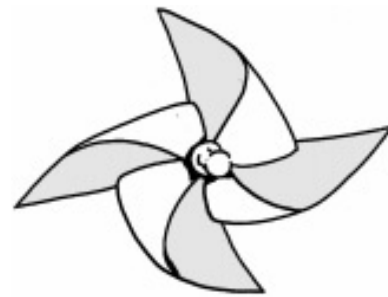
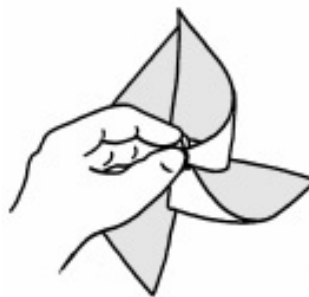
2. Fold your square, corner to corner, then unfold.



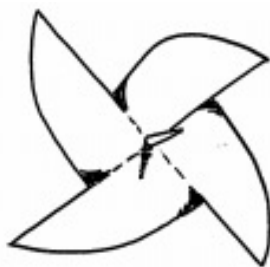
3. Make a pencil mark about 1/3 of the way from center.



4. Cut along fold lines. Stop at your pencil mark.



5. Bring every other point into the center and stick a pin through all four points.

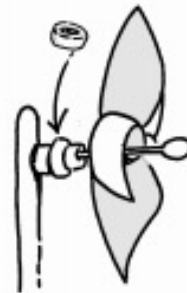


6. Turn your pinwheel over - make sure the pin pokes through in the exact center.

7. Roll the pin around in little circles to enlarge the hole a little. This guarantees your pinwheel will spin freely

8. Stick the pin into a thin dowel.

Hint:  
Separate your pinwheel from the dowel with two or three beads. Stick the pin through the beads first then - into the dowel.



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## EXTRA ACTIVITIES

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### Activity #39

#### Agricultural Hazards Memory Game

Memory games can be a lot of fun! Begin the game with the phrase, "When I go walking around my farm (or home) one hazard I see is....." and finish the phrase by adding one item. As each person takes a turn they add a new item and then they must repeat, in order, the items other people have added. When a person makes a mistake, they are out of the game.

Other phrases could include:

"One piece of personal protective equipment (PPE) is....."

"One thing I can do around our farm to make it safer is....."

### Activity #40

#### Ball Toss

This is a review exercise. Have everyone stand up and form a circle so that everyone is facing inwards looking at each other. Toss a foam ball or bean bag to a person and have them tell what they thought was the most interesting fact or idea that was discussed at the meeting relating to the meeting topic. They then toss the ball to someone else and that person explains what they thought was the most interesting fact learned. Continue the exercise until everyone has caught the ball at least once and explained an interesting fact or idea learned at the meeting.



## ACTIVITY #2 - SENSATIONAL COMPARISON

### Answer Sheet

Compare your senses to that of a typical animal's senses and fill in your guesses below.

#### HUMAN

clear

colour

180 degrees

\_\_\_\_\_

X

\_\_\_\_\_

\_\_\_\_\_

#### VISION

(clear or blurry)

#### VISION

(black and white or colour)

#### VISION

(vision in degrees)

#### SMELL

(check which one has the best)

#### TOUCH

(check which one has the best)

#### HEARING

(check which one has the best)

#### TASTE

(check which one has the best)

#### ANIMAL

blurry

black and white

360 degrees

X

\_\_\_\_\_

X

X

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## ACTIVITY #5 - ANIMALS DESERVE RESPECT

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### Demonstration – Answer Key

#### Seven Important Factors When Working With An Animal

1. Be calm and deliberate
2. Announce your presence well in advance
3. Avoid quick gestures/ movements
4. Be patient - never prod an animal when it has nowhere to go
5. Respect livestock - don't fear it
6. Move slowly, gently touch, don't bump or shove
7. Always have an escape route

## ACTIVITY #8 - DEADLY GASES ANSWER SHEET

### Example Jar – Water

dihydrogen oxide (water)

NAME

wells, ponds, troughs

WHERE FOUND

year round

GREATEST RISK PERIOD

lungs, filling, drowning

PHYSICAL EFFECTS

ON PEOPLE

H<sub>2</sub>O

CHEMICAL CODE

### Jar A Bleach

Nitrogen Dioxide

silos, silo surfaces,

feed rooms

silo filling, up to

four weeks

burning sensation,

stops oxygen  
supply, burns lungs,

bleed, instant death

NO<sub>2</sub>

### Jar B Jar of air

Carbon Dioxide

NAME

top or bottom of silo

WHERE FOUND

after recent silo fill

GREATEST RISK PERIOD

gasp for air, suffocating

PHYSICAL EFFECTS

ON PEOPLE

CO<sub>2</sub>

CHEMICAL CODE

### Jar C Rotten egg

Hydrogen Sulphide

manure pits

during agitation and  
pumping

instantaneous

death in high levels,

stop breathing

H<sub>2</sub>S

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## ACTIVITY #9 - OTHER DEADLY PLACES

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### Answer Sheet

**\*\*NOTE: this list is not inclusive – there could be additional areas that deadly gases can be found**

1. Livestock pen
2. Well
3. Grain bin
4. Manure tanker
5. Bathroom
6. Closet
7. Old car
8. Old fridge
9. Manure pit
10. Shop
11. Silo
12. Machinery shed

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## ACTIVITY #19 - FLAMING WHAT?

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### Answer Sheet

1. Up in Smoke
2. There's a Fire Under Roof
3. The Heat is Intense
4. Back draught
5. Broken Fire Hydrant
6. Heat Wave
7. Third Degree Burns
8. Empty Water Tank