

Manure Jeopardy

Objective: The students will increase comprehension of concepts related to manure handling and storage issues.

Concept: Livestock manure storage and handling can be dangerous to the health of people and animals exposed to high levels of the resulting gases.

Targeted Age: Middle school to high school

Materials:

- ▶ Answer chart
- ▶ Post-it notes
- ▶ Question sheet
- ▶ Play money (provided on next page)

This game is played like the Jeopardy Game show. Contestants ask for a specific category and dollar level. The answer is uncovered and he/she must give the correct corresponding question within 30 seconds to win the money.

Cover the responses on the answer chart with sticky notes that can easily be removed. If you are using this game with a large crowd you may want to enlarge the board so it can be seen from across the room and use larger cover sheets instead of sticky notes. Additional questions and answers can be developed to address numerous topics.

Two teams can play against each other or each individual can play by themselves by raising their hands when they think they know the correct answer. Contestants for teams can be an individual representing a group or the total group working together to come up with a consensus answer.

Contestants ask for a specific topic and a dollar level (denominations of \$100). The Master of Ceremonies (MC) pulls off the sticky note to reveal an answer. The contestant gives an appropriate question to the answer. The MC can be the judge or you can have a group of student judges determine if the response is correct. A score keeper keeps track of the money won or you can run off funny money on the copier or use play money from another game. The player with the most money at the end wins the game. It could be fun to auction off prizes with the "money" won. Prizes could include safety items such as dust masks, ear plugs, flash lights, fire extinguishers, emergency first aid kits, etc.

Q: What animals are often raised in confinement buildings?

A: Hogs, chickens and turkeys.

(resources on the next 3 pages)





Manure Jeopardy (resource)

	RAISING FUMES	IT GETS TO US ALL	STEP IN THE YUCK	FUNGUS AMONG US
\$100	What is manure gas?	What is hydrogen sulfide?	What is a hog confinement unit?	What is a dust mask?
\$200	Who are animals and humans?	What is hydrogen sulfide or carbon dioxide?	What is a manure pit cover?	What is a single strap dust mask?
\$300	What is carbon dioxide or methane?	What are carbon dioxide and methane?	What is a dug out?	What is animal waste dust?
\$400	What is ammonia?	What is asphyxiation?	What is agitation time?	What is increased ventilation?
\$500	What is methane gas?	What may happen when you can no longer detect manure odor?	What is explosion?	What is adding tallow or soybean oil to swine feed?



Manure Jeopardy (resource)

	RAISING FUMES	IT GETS TO US ALL	STEP IN THE YUCK	FUNGUS AMONG US
\$100	A dangerous and smelly by-product of animal wastes.	Gas found in manure storage units that has a distinctive rotten egg smell.	A large building where many hogs are raised.	Protective equipment used over the nose that prevents dust from getting into the lungs.
\$200	The ones affected by dangerous animal waste products.	Gas found in manure storage that is most deadly.	This prevents people, especially children, from falling into a manure pit.	Type of dust mask not recommended for protection against swine dust due to poor face contact.
\$300	Another word for poisonous gas.	Manure gases that are odorless and therefore hard to detect.	The slang term for a manure lagoon in Canada.	A concentration of air particles in animal confinement units that can cause fever, chills, and muscle aches.
\$400	A manure gas heavier than air and irritating to the eyes.	A depletion of oxygen from carbon dioxide exposure can cause this to happen in humans.	Time when manure fumes are the most dangerous.	Air moving procedure that removes dust particles without wasting heat.
\$500	A gas that tends to accumulate near the top of manure pits.	A time when a false sense of security takes place around manure storage.	Results of oxygen mixing with methane.	Addition of these substances that reduces dustiness in swine confinement areas.

