



## LIVESTOCK & AGRICULTURE

### GRADE 7 STEM

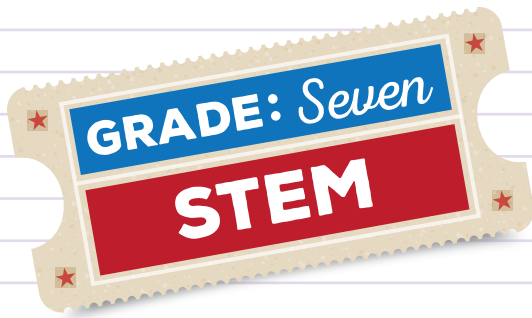
SPENDING THEIR INHERITANCE

HOW INHERITED TRAITS CAN EARN AGRICULTURALISTS BIG BUCKS!



# STUDENT EDITION

## LIVESTOCK & AGRICULTURE



## Spending Their Inheritance How Inherited Traits Can Earn Agriculturalists Big Bucks!

### Recap

- ★ Recall the definition of heredity and inherited traits
- ★ Watch the video about the Woofus again: <https://goo.gl/tLhqiP>
- ★ Think back to the lesson when you discussed Mr. Robertson's Big Investment. What were your team's expenses and profit goal? Here is the price list again:

### Plan Your Route.

- ★ From the Texas Star, head to the Greenhouse on the Midway.
- ★ You'll check out the plants in the Greenhouse, then...
- ★ Make a right onto MLK Blvd and go to the Livestock Barns to examine the animals.



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- ★ Pen or Pencil
- ★ Science Notebook or Paper
- ★ Smart Phone, Tablet/Camera
- ★ Sketchbook for Arts Connection



You will use information you gather at the State Fair to help you with up to three project goals:

1. Help Mr. Robertson invest his money.
2. Write a farming plan in which you choose plants that will seed and reproduce, or two animals that will breed and begin your herd/flock.
3. Design your own Woofus.

The goal of your visit is to gather information about the traits of plants and animals at the Fair. This information will be helpful as you complete your projects, back at class.

# GREENHOUSE

- Observe the plants. What traits do you observe?
- How are the leaves shaped?
- How long is the stem?
- Why might these traits be beneficial to the plants?
- Write these observations in your science notebook or take pictures with your device.



## Greenhouse Plant Traits

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# STEM



- ★ Observe the animals in the Livestock Barn. What traits are observable among the animals there?
- ★ How tall are they?
- ★ Do they have horns or not?
- ★ What colors do you observe?
- ★ How many of each color?
- ★ Are there any mother/baby pairs?
- ★ How might these traits benefit the animal?

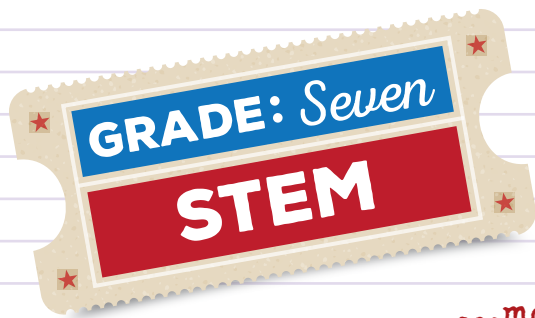
- ★ How might certain traits benefit a farmer?
- ★ Do you see any traits that you saw on the image of the Woofus in class? Sketch these for your Art Connection lesson.
- Draw or take pictures of as many animals as possible!
- Be sure to ask an agriculturalist from the Fair for help and advice, if needed.
- Record the physical characteristics and breeds of the animals you see in the livestock pens, in your science notebook, and take pictures if you can.

ANIMAL	HEIGHT?	HORNS? YES OR NO	COLOR(S)	LIKE THE WOOFUS?
DOG	12	NO	BROWN	YES
CAT	10	NO	BLACK	NO
BIRD	8	NO	YELLOW	YES
FISH	6	NO	BLUE	NO
INSECT	4	NO	GREEN	YES
REPTILE	5	NO	ORANGE	NO
AMPHIBIAN	7	NO	PINK	YES
MAMMAL	9	NO	WHITE	NO
AVIAN	11	NO	RED	YES
HERPETIL	3	NO	PURPLE	NO
NEOMAMMAL	13	NO	GREY	YES
NOCTURNAL	14	NO	BROWN	NO
DIURNAL	15	NO	BLACK	YES
SEMIDIURNAL	16	NO	WHITE	NO
CRESCENT	17	NO	ORANGE	YES
STAR	18	NO	RED	NO
PLANET	19	NO	GREEN	YES
MOON	20	NO	BLUE	NO
SUN	21	NO	YELLOW	YES
WATER	22	NO	PINK	NO
AIR	23	NO	PURPLE	YES
SOIL	24	NO	BROWN	NO
ROCK	25	NO	BLACK	YES
GLASS	26	NO	WHITE	NO
METAL	27	NO	ORANGE	YES
WOOD	28	NO	RED	NO
STONE	29	NO	GREEN	YES
PLANT	30	NO	BLUE	NO
ANIMAL	31	NO	YELLOW	YES
HEALTHY	32	NO	BROWN	NO
SICKLY	33	NO	BLACK	YES
WELL	34	NO	WHITE	NO
POOR	35	NO	ORANGE	YES
GOOD	36	NO	RED	NO
BAD	37	NO	GREEN	YES
BETTER	38	NO	BLUE	NO
WORSE	39	NO	YELLOW	YES
FASTER	40	NO	PINK	NO
SLOWER	41	NO	PURPLE	YES
STRONGER	42	NO	BROWN	NO
WEAKER	43	NO	BLACK	YES
HEAVIER	44	NO	WHITE	NO
LIGHTER	45	NO	ORANGE	YES
DEEPER	46	NO	RED	NO
SHALLOWER	47	NO	GREEN	YES
WIDER	48	NO	BLUE	NO
THINNER	49	NO	YELLOW	YES
LONGER	50	NO	PINK	NO
SHORTER	51	NO	PURPLE	YES
OLDER	52	NO	BROWN	NO
YOUNGER	53	NO	BLACK	YES
SMALLER	54	NO	WHITE	NO
LARGER	55	NO	ORANGE	YES
FASTER	56	NO	RED	NO
SLOWER	57	NO	GREEN	YES
STRONGER	58	NO	BLUE	NO
WEAKER	59	NO	YELLOW	YES
HEAVIER	60	NO	PINK	NO
LIGHTER	61	NO	PURPLE	YES
DEEPER	62	NO	BROWN	NO
SHALLOWER	63	NO	BLACK	YES
WIDER	64	NO	WHITE	NO
THINNER	65	NO	ORANGE	YES
LONGER	66	NO	RED	NO
SHORTER	67	NO	GREEN	YES
OLDER	68	NO	BLUE	NO
YOUNGER	69	NO	YELLOW	YES
SMALLER	70	NO	PINK	NO
LARGER	71	NO	PURPLE	YES
FASTER	72	NO	BROWN	NO
SLOWER	73	NO	BLACK	YES
STRONGER	74	NO	WHITE	NO
WEAKER	75	NO	ORANGE	YES
HEAVIER	76	NO	RED	NO
LIGHTER	77	NO	GREEN	YES
DEEPER	78	NO	BLUE	NO
SHALLOWER	79	NO	YELLOW	YES
WIDER	80	NO	PINK	NO
THINNER	81	NO	PURPLE	YES
LONGER	82	NO	BROWN	NO
SHORTER	83	NO	BLACK	YES
OLDER	84	NO	WHITE	NO
YOUNGER	85	NO	ORANGE	YES
SMALLER	86	NO	RED	NO
LARGER	87	NO	GREEN	YES
FASTER	88	NO	BLUE	NO
SLOWER	89	NO	YELLOW	YES
STRONGER	90	NO	PINK	NO
WEAKER	91	NO	PURPLE	YES
HEAVIER	92	NO	BROWN	NO
LIGHTER	93	NO	BLACK	YES

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...more Livestock Barn notes:



### Plan Your Route.

- ★ Your THIRD stop will be to find the WACKY WOOFUS!
- ★ When you are finished looking at all of the animals, make your way outside of the Swine building, where you will find the statue of the Wacky Woofus. Pay close attention to the unique details of the sculpture.
- ★ How does seeing it in person compare with seeing it in a picture?
- ★ Are there things you notice about it now that you did not see in the classroom?
- ★ What are your favorite features of the sculpture?
- ★ Is there anything you would do differently?

### Back at School

When you return to class following your State Fair visit, you may work on your three goals listed above. See your teachers for more information.