Name		Teacher _		Date
Aniı	mals in O	ur Diets	s Works	sheet
Use the directi protein footprint.	ons in the Animals in	n Our Diets Rea	ading to calcula	ite your agricultural
Step 1: How much 1. List as many anim	•	-	people eat.	
2. Follow the direction	one in the Animals in	Our Diete Bee	ding to complete	o Table 1
2. Follow the direction		animal-based		e rable r.
1. Source of animal protein	2. Amount consumed			food consumed by . of feed)
3. How much animal processing The USDA recommendation a	mends that you eat r			. How close to this
Step 2: Find your a	igricultural protei	n footprint		
4. Your smallest ag only plant protein.	•	The smallest of beans would	you have to ea	tprint comes from eating at to get the same
	cultural footprint. He animals that provide			ch could be beans) are ? lbs



6.	Notice that animals consume more than 1 pound of food for every pound of protein they produce. Use what you know about cellular respiration to explain why this happens.
7.	Make a scale drawing of your agricultural protein footprint. Use a sheet of graph paper. Let each square represent 0.1 lb feed or beans. In one corner, draw a line around the number of squares that represent the mass of beans equivalent to the animal protein that you ate. (See question 4.) Shade in that area.
	In another part of the graph paper, draw lines around squares representing the amount of feed it would take to produce each of the different animal products that you ate. (See question 5.) Label each area you outline.
	How does your actual agricultural protein footprint compare to that of the smallest agricultural footprint based on a bean diet?
8.	By 2050, the world's population will be about 9 billion people – a 28% increase from today's population. However, almost all of the world's productive agricultural land is already in use. Think about what you learned from your class's study of your agricultural protein footprints. What are the implications of what you learned on this problem of feeding the world?