Table S1. Full content and functionality of Farm Animal Welfare.
LEVEL 1: PART 1 Chicken Sentience
Q Image $\quad$ Question

1a Chicken playing in dust bath
1b Chicken in pain
1c Chicken in unhealthy condition
1d Chicken in unhealthy condition
1e Healthy chickens in good condition

1f Chicken in unhealthy condition
1g Chicken in unhealthy conditions in intensive farming system
1h Healthy chickens in good condition with fresh water

Is this chicken happy? Is this chicken in pain?
Is this chicken sad?

Is this chicken scared?

Are these chickens in pain?
Is this chicken happy?

Are these chickens scared?

Are these chickens sad?

CHICKENS
Format

Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very)

Multiple format (not at all, not really, maybe, yes, yes very)

Multiple format (not at all, not really, maybe, yes, yes very)

Multiple format (not at all, not really, maybe, yes, yes very)

Multiple format (not at all, not really, maybe, yes, yes very)

Multiple format (not at all, not really, maybe, yes, yes very)

Feedback
This chicken is happy because it has a dust bath to play in!
This chicken is in pain
We can see this chicken is unhappy by the way she is lying with her head down

This chicken is unhappy and might be scared as she has not been looked after properly

These chickens are not in pain. These are happy and healthy chickens!

This chicken is unhappy and unhealthy as she has not been looked after properly

These chickens are unhappy and may be scared because there are lots of chickens living close together in one barn (these are broiler chickens)

These chickens are happy because they have fresh water to drink!

## LEVEL 1: PART 2 Chicken sentience

Q Image $\quad$ Question $\quad$ Format $\quad$ Feedback

| 2a | Neutral chicken | Are chickens clever? |
| :---: | :---: | :---: |
| 2b | Neutral chicken | Do chickens get frightened? |
| 2c | Neutral chicken | Can chickens feel pain? |
| 2d | Neutral chicken | Can chickens feel happy? |
| 2 e | Neutral chicken | Can chickens feel sad? |
| 2 f | Neutral chicken | Do chickens like to live alone? |

## LEVEL 2 Question

3a What does a chicken need to be happy and healthy?
3b What does a chicken need to be happy and healthy?

Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very) Multiple format (not at all, not really, maybe, yes, yes very)

## Format

Drag and drop items to chicken or bin (various farm items)
Drag and drop items to chicken or bin (various farm items)

Chickens are cleverer than we may think they are! Did you know chickens can do basic math?!
Chickens can get scared and anxious! Especially when there is a fox around!
Chickens can feel pain just like we can!
Chickens show happiness especially when they have something fun to do such as play in a dust bath!
Chickens will be unhappy if they do not have a nice clean place to live with friends and the right food
Chickens like to live with other chickens! Did you know chickens like to form bonds and friendships with others?

## Feedback

Chickens need lots of things to make them happy and healthy such as: Constant fresh food and water, A place to rest, Space to move around and flap their wings, Fresh air, Company from other chickens, Health checks and medication if needed, A clean place to live, Safe items to reduce boredom such as a dust bath or swing, Laying hens need comfy nest boxes, Shelter to hide from scary noises and movement, Items to peck and scratch at, To be treated nicely and free from pain and fear, Perches to sleep on.

## LEVEL 3

| Question | Format | Feedback |
| :--- | :--- | :--- |
| 4. Some chickens are raised for meat, | Drag and drop items to 'happy side' | Well done! Keeping lots of chickens in one space means that more eggs |
| these are called broiler chickens. Some | of the scale or 'money side' of the | or more meat can be made and farmers will make more money. |
| chickens are reared for eggs, these are | scale. Images of different chicken | However, keeping lots of chickens in one space means more unhappy |
| called laying hens. Which farming | farming systems | chickens as chickens will have less space to move around, less objects to <br> systems are better for money and which |
| pere and scratch at, less space to spread their wings and less places to |  |  |
| are better for happy animals? Place the |  | perch. |


| 5a | Cow in healthy condition | Is this cow happy? | Multiple format (not at all, not really, maybe, yes, yes very) | This dairy cow is happy and healthy! |
| :---: | :---: | :---: | :---: | :---: |
| 5b | Cow in pain | Is this cow in pain? | Multiple format (not at all, not really, maybe, yes, yes very) | This beef cow is in pain |
| 5c | Cows in intensive farming condition | Are these cows sad? | Multiple format (not at all, not really, maybe, yes, yes very) | These dairy cows may be unhappy because they are inside with no grass and do not have much space to move around |
| 5d | Cow with head stuck in ladder | Is this cow scared? | Multiple format (not at all, not really, maybe, yes, yes very) | This dairy cow may be scared and unhappy because she has got her head stuck in a ladder! |
| 5 e | Cow in healthy condition | Are these cows in pain? | Multiple format (not at all, not really, maybe, yes, yes very) | These beef cows are not in pain, they are happy and healthy as they have been looked after well! |
| 5f | Cow in unhealthy and neglected condition | Is this cow happy? | Multiple format (not at all, not really, maybe, yes, yes very) | This cow is unhappy because he has been neglected and not looked after properly |
| 5 g | Cow in bad condition tied up | Is this cow scared? | Multiple format (not at all, not really, maybe, yes, yes very) | This meat cow is scared because he has been tied up and has no space to move around |
| 5h | Cow in healthy condition in open field | Are these cows sad? | Multiple format (not at all, not really, maybe, yes, yes very) | These are happy dairy cows because they have lots of space and fresh grass to eat! |
| LEVEL 1: PART 2 |  |  |  |  |
| Q | Image | Question | Format | Feedback |
| 6a | Neutral cow | Are cows clever? | Multiple format (not at all, not really, maybe, yes, yes very) | Cows are cleverer than we may think! They can solve puzzles and enjoy finding the solution! Did you know cows also have good memories? |
| 6 b | Neutral cow | Do cows get frightened? | Multiple format (not at all, not really, maybe, yes, yes very) | Cows can become scared easily by loud noises or sudden movement |
| 6 c | Neutral cow | Can cows feel pain? | Multiple format (not at all, not really, maybe, yes, yes very) | Cows can feel pain just like we can! |
| 6d | Neutral cow | Can cows feel happy? | Multiple format (not at all, not really, maybe, yes, yes very) | Cows can be happy! Especially when there's nice fresh grass to eat, fresh clean water and lots of space to move around in |
| 6 e | Neutral cow | Can cows feel sad? | Multiple format (not at all, not really, maybe, yes, yes very) | Cows can feel sad, especially when their calf is taken away from them. Cows shed tears when they are sad, just like we do |

LEVEL 2 COW Five Welfare Needs

Question
7a What does a cow need to be happy Drag and drop items to chicken or and healthy?

## Format

## Feedback

Cows need lots of things to make them happy and healthy such as: Constant fresh food and clean, fresh water, A nice comfortable place to

7b What does a cow need to be happy and healthy?

Drag and drop items to chicken or bin

## LEVEL 3 COWS

| Question | Format |
| :--- | :--- |
| 8. Some cows are raised for meat, these | Drag and drop items to 'happy side' <br> are called beef cattle. Some cows are <br> of the scale or 'money side' of the <br> reared for milk, these are called dairy |
| scale. Images of different cow <br> cows. Which farming systems are better <br> for money and which are better for |  |
| fappy animals? Place the farming |  |
| system onto the scale! |  |

redback
Well done! Keeping lots of cows in one space means that more beef or more milk can be made and farmers will make more money. However, keeping lots of cows in one space means more unhappy cows as they will have less space to move around. Using special machines to milk dairy cows means farmers can produce more milk quickly, but this may be uncomfortable for the cows. Calves are taken away from their mothers at a very young age so that the mothers produce more, good quality milk for the farmer. Therefore the farmer makes more money but this makes the cows unhappy.

Supplementary materials: Supplementary Figures


Figure S1. Example from Level 1 of Farm Animal Welfare Game.


Figure S2. Example from Level 2 of Farm Animal Welfare Game.


Figure S3. Example from Level 3 of Farm Animal Welfare Game.

