

Name: \_\_\_\_\_

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

## **'Who's the Pest?' Game Worksheet**

(Browser - <http://www.kongregate.com/games/explorewellcome/whos-the-pest>)

(App - <https://itunes.apple.com/gb/app/whos-the-pest/id618275966>)

### **Intro:**

In this fast-paced strategy game you must defend your crops from ants. The tables are then turned and you must help the ants feed their nest. As you play first human then ant, you'll find yourself asking: who really is the pest? In this ant-filled and addictively frantic strategy game, the critters become the heroes and humans the enemies when the gameplay switches allegiance, leaving players asking themselves who is really the villain of the piece.



'Who's the Pest?' explores the entwined and co-dependent love/hate story between humans and insects. As a human in 'Who's the Pest?', you must defend your prized cabbages from voracious ants who have placed aphids on the leaves to farm for honeydew. Using, rocks, apples, logs and twigs, you direct the marching ant colony away from your valuable crops and into the waiting jaws of insect predators. Playing for the ant team, you have only pheromones to guide you. You must make your way to the cabbages and back while avoiding the almighty praying mantis, the snacking huntsman spider, the easily distracted devil's coach horse beetle and the fearsome bombardier beetle - a creature whose violent internal chemistry emits a fatal acid spray. (from the Wellcome Collection website)

### **Before Starting the Game:**

Go to <http://whosthepest.wellcomeapps.com/> and click on the "Who's Eating Who?" button. Draw and label the food web in the box below:

**During the Game:**

Work through as many levels as you can, answering the questions after each one. **NOTE** - You cannot save your progress during this game, so go as far as you can in the period and don't worry if you cannot fill out the entire worksheet:

Level 1 – The Humans: If you put all the ants in the world on one side of a scale, and all the humans on the other, the ants would weigh \_\_\_\_\_ times more than us.

Level 1 – The Ants: Before dying, what is the main function of a male ant? \_\_\_\_\_

Level 2 – The Humans: How many pairs of legs do most centipedes have? \_\_\_\_\_

Level 2 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 3 – The Humans: What does the bombardier beetle do when threatened?

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Level 3 – The Ants: What does a certain type of parasitic fungus do to some ants?

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Level 4 – The Humans: What special ability does the huntsman spider have?

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Level 4 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 5 – The Humans: What are three benefits of eating cabbage?

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Level 5 – The Ants: How do ants communicate and cooperate with each other?

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Level 6 – The Humans: What myth is associated with the Devil’s coach horse beetle?

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Level 6 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 7 – The Humans: Occasionally, what does a male mantis do after mating?

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Level 7 – The Ants: How do ants help fertilize the soil?

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Level 8 – The Humans: What is Entomophagy? What is an insectivore?

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Level 8 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 9 – The Humans: What percentage of all crops consumed by humans do insects, birds, and bats affect the pollination of? \_\_\_\_\_

Level 9 – The Ants: What odd behaviour do some ants use to carry out ‘chores’?

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Level 10 – The Humans: What percentage of all animal life do invertebrates and micro-organisms make up? \_\_\_\_\_

Level 10 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 11 – The Humans: In the USA, what is the Food and Drug Administration’s limit for insect parts in peanut butter?

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Level 11 – The Ants: Ants can lift up to \_\_\_\_\_ times their own body weight.

Level 12 – The Humans: What percentage of insects are harmful to humans, farm animals or crops? \_\_\_\_\_

Level 12 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 13 – The Humans: How do ants help keep gardens healthy?

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Level 13 – The Ants: What band reached number 2 in the UK singles chart in 1980? \_\_\_\_\_

Level 14 – The Humans: How many species of insect are regularly eaten globally by humans? \_\_\_\_\_

Level 14 – The Ants: Total Calories gained so far: \_\_\_\_\_

Level 15 – The Humans: Who was one of the first people to use the term ‘bug’ to describe a flaw in an electronic system? (1878) \_\_\_\_\_

Level 15 – The Ants: How long can a cockroach’s body survive decapitation for? \_\_\_\_\_

FINAL SCORE: Humans – Total Calories Protected \_\_\_\_\_; Ants – Total Calories Gained \_\_\_\_\_

**After the Game:**

How do ants help humans? (this will require internet research)

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