

The Pet Race

Four children (Jay, Kay, Leon, and Mark) enter their pets (rabbit, frog, turtle, and puppy) into a race. Use the clues below to figure out which child has each pet and what place each pet finished in the race.



	Rabbit	Frog	Turtle	Puppy	First	Second	Third	Fourth
Jay								
Kay								
Leon								
Mark								
First								
Second								
Third								
Fourth								



CLUES:

- Jay's rabbit did not win the race.
- Kay finished right after Jay.
- Leon does not have a frog and did not finish second.
- Mark's pet finished right after the puppy.
- Kay does not own a reptile or amphibian. Her pet finished in 3rd place.



PROJECT IMPROVEMENT

BACKGROUND:

During this final class of your group will finish testing your project and complete any necessary improvements. All materials are up for grabs!

ENGINEER SPOTLIGHT:

James Park, Inventor

James Park is a Korean-American entrepreneur who invented the Fitbit using technology inspired by the Nintendo Wii. The Fitbit has become one of the most famous wearable pieces of technology, used to track steps, heart rate, and more. In 2019, Mr. Park sold his company, Fitbit, to Google for \$2.1 billion! Let's improve our inventions today, just like Mr. Park



STEPS:

1. With your group, discuss what improvements need to be made on your projects.
2. Even if your project worked well in testing, what could you do today to make it even better?

TELL ME ABOUT IT

BACKGROUND:

An important part of creating something new is sharing your work with others. Many inventors and engineers do this at conferences using research posters. These posters could include information on how the project was made or show how an invention accomplishes a task. Today your group will make a poster and share your projects during a gallery walk, explaining to other groups what you have created and what you learned from the experience.

STEPS:

1. With your group, make a poster about your project on the **butcher paper**. Use this sheet to plan.
2. What important information do you want to share about your project?

3. Ideas for questions to ask other groups about their projects:

FOR FUN! Solve the crossword puzzle.

Digital Technology

Across

2. external device that provides input and output for the computer (e.g. keyboard, mouse)

4. data sent to your computer by a Web server that records your actions on a certain Web site

7. memory containing hardwired instructions that the computer uses when it boots up, before the system software loads

9. hardware or software that acts as a bridge between two networks so that data can be transferred between a number of computers

10. each motherboard has a collection of chips and controllers known as _____

12. rate at which a processor can complete a processing cycle

13. prevent data from being modified or tampered with

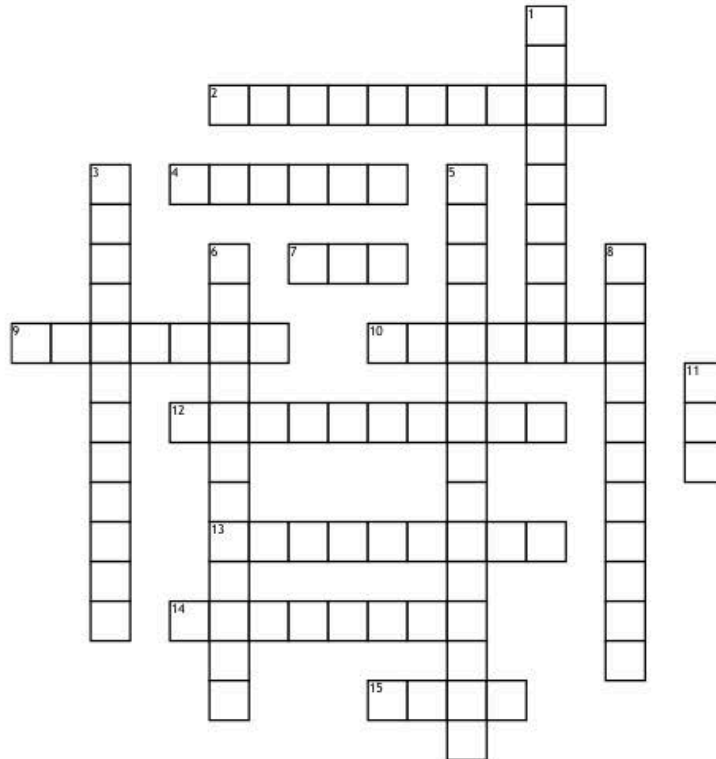
14. separate two or more parts of a network to control data exchange between each other

15. protocol used for sending e-mail over the Internet using a set of commands that authenticate and direct the transfer of electronic mail

Down

1. code made up of numbers separated by three dots that identifies a particular computer on the Internet

3. process of converting data into a secret code for transmission over a public network



5. keep information protected from unauthorized disclosure or viewing

6. computer resources must be ready for use by authorized users when needed

8. main circuit board of your computer and is also known as the mainboard or logic board

11. computer network limited to a small area such as an office building, university, or even a residential home

