

## Personal Innovations

### Your Tasks (Mark these off as you go)

- ☐ Share something you are good at
- ☐ Have Ms. Pluska assign you to a group
- ☐ Assign group roles
- ☐ Group up and share out
- ☐ Brainstorm technological innovations
- ☐ Nominate an idea
- ☐ Brainstorm an infographic
- ☐ Create your infographic
- ☐ Receive credit for this lab guide

### ☐ Share something you are good at

Consider the following prompt:

*"What's something that you know a lot about, something you are good at, or something that you could teach somebody?"*

- This doesn't have to be a subject in school. It can be anything... movies, running, juggling, guitar, drawing, or video games for example.
- As a person, as an individual who is living and breathing in this world, there is something that you probably know a lot about - maybe you feel like you know more about than most people. What is that thing?

Write your name on the back of sticky note, then on the front of the sticky note write "your thing".

Stick the sticky note to the whiteboard in the back of the room

### ☐ Have Ms. Pluska assign you to a group



Do not continue until Ms. Pluska has assigned you to a group

## □ Assign group roles

Before you continue, collaborate with your group, and assign each person a role. Each role and a description are provided below. Record the role of each group member below,

<b>Project manager (PM)</b>	Leads the team discussion and keeps the team on task and on schedule. Make sure the final lab is submitted.
<b>Recorder (R)</b>	Records answers for the team, or ensures that all members have correct answers.
<b>Communication Specialist (CS)</b>	Presents answers (or questions) to the class, instructor, or other teams.
<b>Strategic Analyst (SA)</b>	Considers how the team is working and ensures all voices are heard

Name	Role

## □ Group up and share out

You have been assigned to a group that represents a diverse set of interests. Within your group,

- Introduce yourself
- Explain the thing you know a lot about
- Teach your group something about it, or tell the group something interesting about it
- Have each person in the group indicate their name and their thing below.

Name	Thing

## □ Brainstorm technological innovations

People seem to say that technology is all around us, that it affects everything we do. Is that true?

Technological innovation is about recognizing a problem that needs to be solved, or recognizing something that needs improving and then building a tool to solve it.

Go around the group, and for each individual's area of interest:

- Identify how technology affects your thing
- Then, make a suggestion for how technology could be applied to improve or solve a problem with your thing

Thing	How is technology used with or affects the thing	How might technology be used to improve or solve a problem with the thing

## Nominate an idea

As a group you have just brainstormed about technology ideas. Now, come together and get excited about one of them. As a group, nominate the idea you've discussed that you think would be the most interesting to everyone else in the class. Complete the questions below.

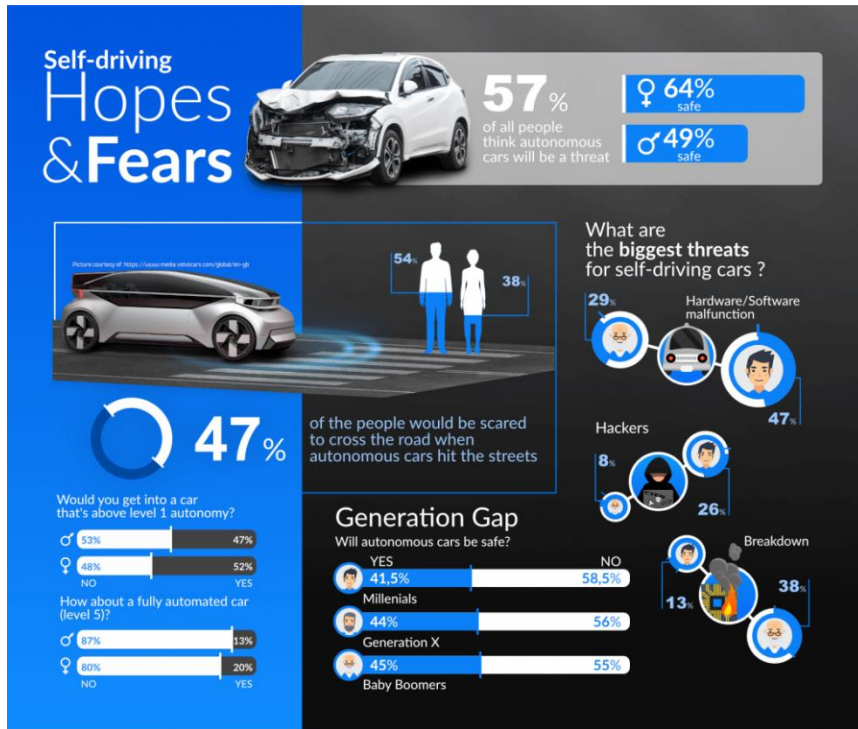
<b>Innovation:</b>	
<b>What does the technological innovation enable you to do?</b>	
<b>What is the task you want to improve?</b>	
<b>How do people currently do the task that you are wanting to improve?</b>	
<b>What is a problem or issue with the way this task is done and how does your innovation solve or make it better?</b>	
<b>What are some reasons that might prevent your innovation from being adopted? For example, will people perceive your innovation as unsafe? Bad for the environment? Etc.</b>	

## □ Brainstorm an infographic

An infographic is a collection of imagery, charts, and minimal text that gives an easy-to-understand overview of a topic. Check out the link below to learn more about infographics,

<https://venngage.com/blog/what-is-an-infographic/#1>

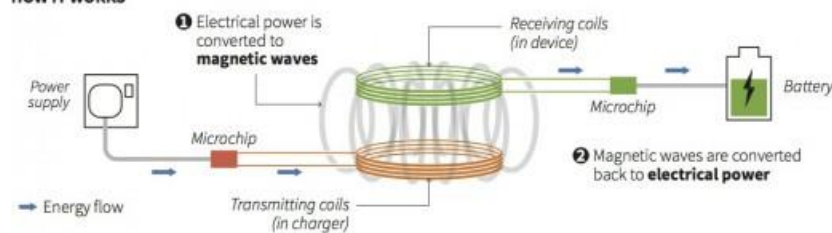
Below are some examples of infographics for different technologies



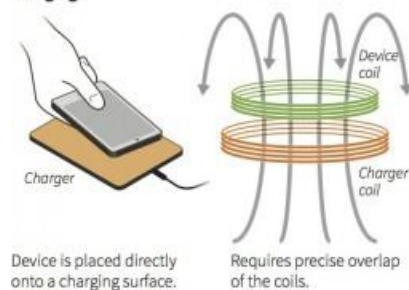
## Wireless charging

The two main systems are variations of the same technology: a metal coil inside the device picks up magnetic waves from a transmitter coil in the charging surface.

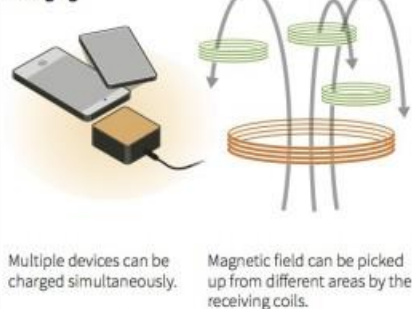
### HOW IT WORKS



### Inductive charging



### Magnetic resonance charging



Now that you have explored infographics, you will create an infographic of your idea. The infographic you create must convey the following information,

- The name of your innovation
- The thing your innovation impacts
- How your innovation works to improve your thing
- Potential obstacles preventing your technology from being adopted

Feel free to jot down ideas or sketches in the space below:

Brainstorming and notes

## ☐ **Create your infographic**

Use the provided paper and markers to create your infographic poster. Your final infographic should use imagery, charts, and minimal text to give an easy-to-understand overview of your topic.

Get creative!

## ☐ **Receive Credit for the group portion of this lab**

Submit this portion of the lab to Pluska to receive credit for the lab guide.