

### **Testable Question: Characteristics**

A good testable question has the following characteristics:

- It does not have an obvious answer that can simply be looked up online.
- It can be answered by measuring something (i.e., the answer is based on data, not on beliefs or hunches).
- It can be done in the time and with the money you have.
- It can be answered without risking your safety or the safety of other living things.

Type your testable question here:

### **Testable Question: Importance**

A good testable question is one where the answer matters because it could help others. Maybe it tells us about how people interact which could improve our social skills. Maybe it tells us which hand sanitizer is most effective, and therefore which one we should purchase and use in our classroom. Whatever the case may be, your experiment is being done to benefit others by giving them knowledge they can use.

How is your testable question important (type your answer here)?

### **Hypothesis**

Your hypothesis is an answer to your testable question that you think will be the case based on your background research (your Cornell notes). Your hypothesis is not a random guess (you must have a reason for it based on research). Your hypothesis does not have to turn out correct. An incorrect hypothesis is just as valid, and you learn just as much from it.

Type your hypothesis here:

### Matching Game – Shelf Work

Sort the following cards and place them under the correct headings on the next page.

Cannot simply find the answer via a single Google search click	Has no single, obvious answer
Can be done with the money you have budgeted	Makes a contribution to society
Is not about a hunch or a belief, it is about evidence through data analysis	Can be measured (quantified)
Does not harm any living beings	Is safe for you to perform
Tentatively answers your testable question	Is not a random guess (is guided by background research)
Could inform other scientists who may then build on your work	Does not have to be correct
	Provides knowledge to others

[illegible]

## CONTROL CARD

<b>Testable Question: Characteristics</b>	<b>Testable Question: Importance</b>	<b>Hypothesis</b>
Cannot simply find the answer via a single Google search click	Makes a contribution to society	Tentatively answers your testable question
Has no single, obvious answer	Could inform other scientists who may then build on your work	Is not a random guess (is guided by background research)
Can be done with the money you have budgeted	Provides knowledge to others	Does not have to be correct
Is not about a hunch or a belief, it is about evidence through data analysis		
Can be measured (quantified)		
Does not harm any living beings		
Is safe for you to perform		