

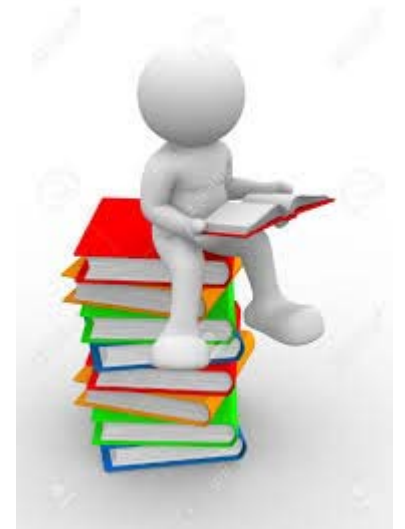
Asking Questions & Making Predictions



Types of Questions

- **Research** Question

- Facts that can be **found** in a **book** or **online**
- **What is gum made out of?**



- **Experimental** Question

- Can be **tested** to find an answer
- Need to **change** one thing to find an answer
- **What type of gum blows the biggest bubbles?**



What Makes a Good Scientific Question?

- Have a “**real**” answer. More than yes or no.
- Are **testable/experimentally based**
- Are **interesting**, you want to find out the answer



Making a Hypothesis

HYPOTHESIS:

A **prediction** about what will happen in the experiment.

- If....then....because...
- **Don't** use the words **I, me, we, you**

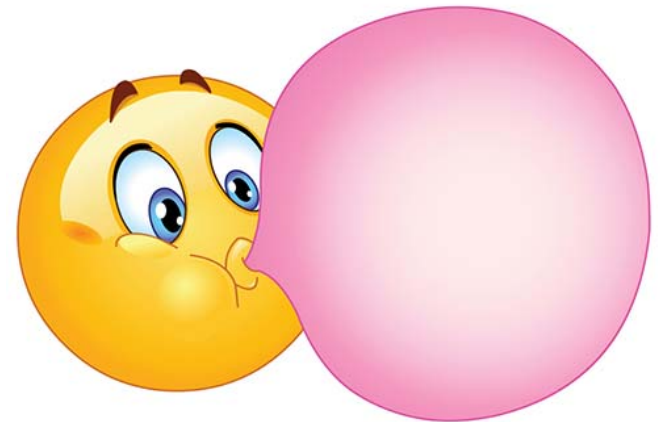


Hypothesis:

- If....then....because...

Ex. What type of gum makes the biggest bubbles?

- **IF** Trident and Hubba Bubba are compared
THEN Hubba Bubba will make bigger bubbles
BECAUSE it is chewier gum.



CARS Checklist

Credibility	Is the author listed?
	Are the author's credentials listed?
	Has the author checked for spelling errors and grammatical errors?
Accuracy	Is there a date of publication?
	Is the information up to date?
	Does the information agree with other resources?
	Is the information complete?
	Does the author acknowledge all views?
Reasonableness	Is the author fair?
	Is the author concerned with telling the truth?
	Has the author told you why the resource was created?
Support	Are all the sources listed?
	Can you contact the author?



VIII. References:

- In the text, cite the literature in the appropriate places:

Scarlet (1990) thought that the gene was present only in yeast, but it has since been identified in the platypus (Indigo and Mauve, 1994).

- In the References section list citations in alphabetical order in APA format.

Journal Format - Author, A. (Publication Year). Article title. Periodical Title, Volume (Issue), pp.-pp.

Website Format - Author, A. (Year, Month Date of Publication). Article title. Retrieved on DATE from URL

Indigo, A. C., and Mauve, B. E. (1994). Queer place for qwerty: gene isolation from the platypus. *Science*, 275 (2), 1213-1214.

Scarlet, S.L. (1990). Isolation of qwerty gene from *S. cerevisiae*. Retrieved on January 6, 2018 from <http://www.bibme.org/citation-guide/apa/journal-article/>