



# Applying the Scientific Process To My Ag Operation



# A Dynamic, Open-ended Process to Investigate Questions



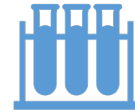
1. Ask a question



2. Perform  
Research



3. Establish a  
Hypothesis



4. Test the  
Hypothesis



5. Make an  
Observation



6. Analyze the  
results and draw a  
conclusion



7. Present the  
Findings



# Ask a Question



Something you want  
an answer to



how, what, when, why,  
where, who or which



Measurable and  
Answerable through  
experimentation



Probably looking for a  
numerical result



# Perform research

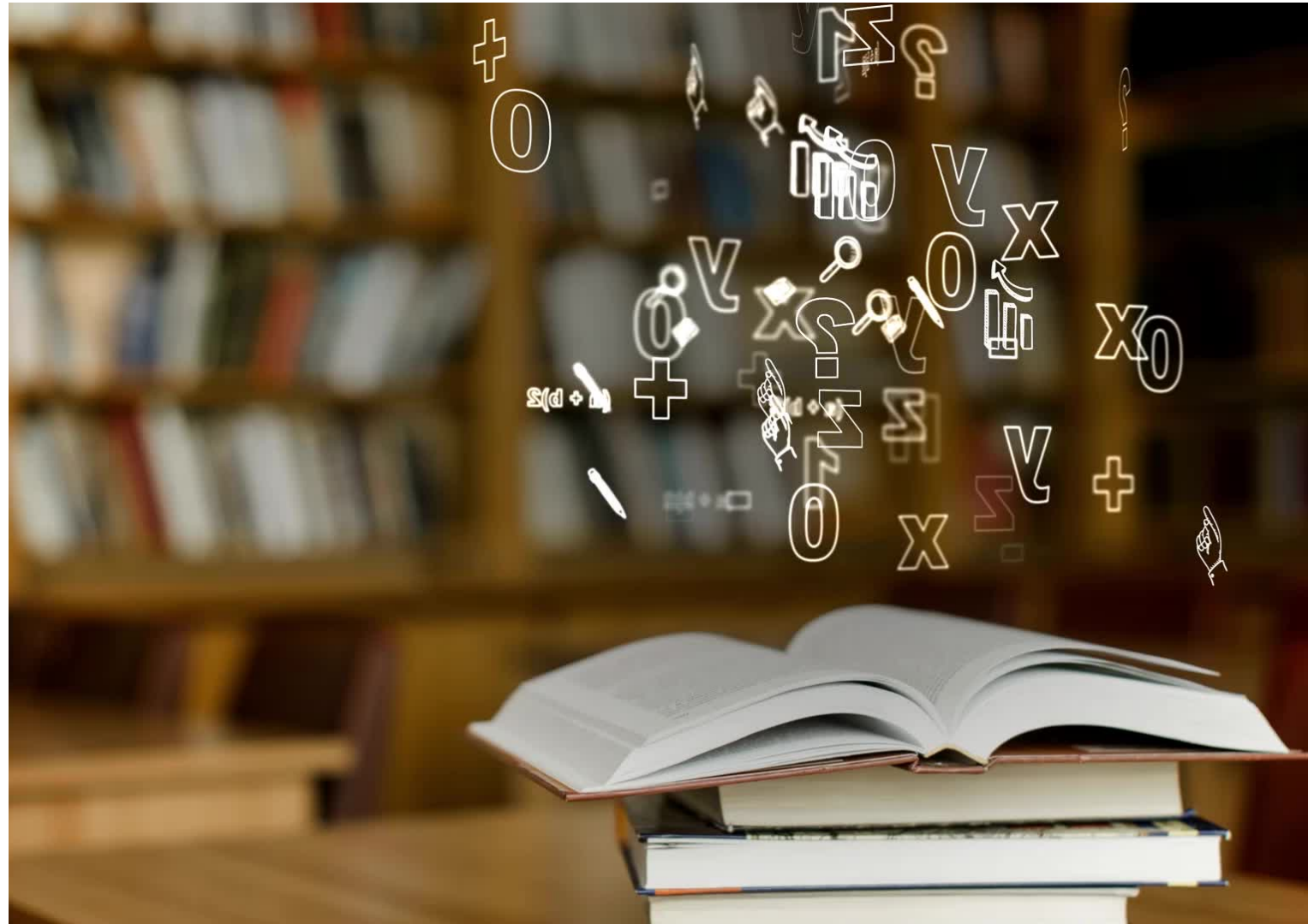
Conduct  
preliminary  
background  
research

Previous  
studies and  
experiments



## Establish a Hypothesis

- An educated guess
- Predictions that you can measure



# Test the Hypothesis

---

# Experiments

---

# Repeatable



# Make an Observation

Assess your  
scientific  
process

Consistent  
testing  
measures

Can you  
repeat it



# Analyze the Results and Draw a Conclusion

Do your findings support your Hypothesis

If not you might return to step 3 and repeat the process

If so, compile the results





# Present the Findings

Publications

School assignment

Science Fair

Management team



# Assignment

- Read the project report
  - Goats as a weed control alternative in small acreage ranchettes
- Identify the Steps of the scientific process

