

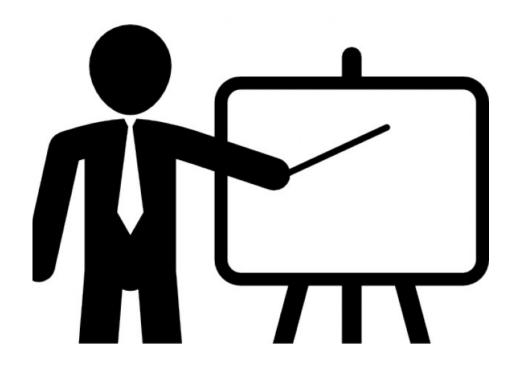
# Approaches to Teaching Communication Skills: Improving Students' Skills One Activity at a Time



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## Introduction

- Teaching scientific concepts is the focus of high school agriculture and science teachers' time, effort, and ability, but <u>communication</u> skills are the are the foundation that will lead to change (Morgan, 2012).
- Teaching communication skills can be <u>difficult</u>
  as these skills require behavior change and,
  thus, require unique approaches different
  than teaching basic knowledge and
  understanding.
- Often, agriculture and science teachers do not have the time, nor the expertise, to prepare instruction to deliver soft skill training to students.





## Method



#### Research Design

- This study aligns with applied research in nature as it aimed to solve a specific problem of a group (Patton, 2002).
- Narrowed to a **transcendental phenomenological inquiry** as it "focused less on the interpretations of the researchers and more on a description of the experiences of participants" (Creswell & Poth, 2018, p. 78).

## Method

### Population/Sample

- A purposive sample was selected "to permit inquiry into and understanding of a phenomenon in depth" (Patton, 2002, p. 46).
- Creswell and Poth (2018) said in order to adequately explore a phenomenon, a heterogeneous group ranging in size from 3 to 4 individuals to 10 to 15 individuals who have all experienced the phenomenon should be involved.





## Method

#### Procedures

- Established a mutually-convenient time to hold semi-structured one-on-one interviews with each participant.
- The information gathered was reduced into noteworthy statements or quotes, which were categorized into themes (Creswell & Poth, 2018).
- First used open or axial coding (Corbin & Strauss, 2008).
- Implemented a comparative analysis (Corbin & Strauss, 2008).
- Themes were evaluated by two criteria: internal homogeneity and external homogeneity (Patton, 2002).
- Textural descriptions that explain *what* the participants experienced, and structural descriptions which explain *how* they experienced it (Creswell & Poth, 2018).

# Theme 1 – Using exploration to enable communication

#### What

Students are required to explore or research a phenomenon and become "the expert" to then teach others.

- Oral and written components
- Identify reliable sources
- Learn not to trust something at face value
- Establish credibility in their work
- Convey themselves as reliable sources of information
- Make claims based on evidence
- Expository writing (i.e. claim, evidence, reason)
- Case studies

# Theme 2 – Using marketing to explain effective communication

#### What

Students use marketing techniques to design a product or sell their idea

- Oral and written components
- Understand their target audience and its needs
- Learn to frame a message
- Be able to deliver a message
- Create a sales pitch
- Design an object using 3D printer
- Analyze TV commercials or online advertisements
- Develop a commercial

# Theme 3 – Encouraging critical thinking

#### What

Students are required to clarify, explain and decode information to make informed decisions

- Oral and written components
- Problem-solving
- Logical fallacies accompanied with myths
- Practice turning goals into actionable steps
- Reflection
- Inquiry-based activities
- Explain and interpret controversial topics

# Theme 4 – Critiquing approaches

#### What

Students engage in critiquing their peers and/or teacher and recommend changes

- Oral and written components
- Demonstrate negatives in presenting
- Offer feedback
- 2:1 ratio
- Address specific areas (i.e. body language, hand position and gestures, eye contact, voice, volume, use of "ums")
- Make revisions

## Theme 5 – Mechanics of communication

#### What

Students engage in activities to understand the fundamentals of written and oral communication and their effectiveness

- Discuss word choice
- Practice shortening sentences
- Readability of directions and how to improve them
- Eliminate "fluff"
- Context clues to interpret word meanings

# Theme 6 – Active listening guidance

#### What

Students learn to be active audience members and to listen effectively to formulate relevant questions

- In-depth discussions
- Guest speakers
- Open-ended versus close-ended questions
- Share someone else's opinion accurately
- Practice interviewing
- Write pertinent questions and evaluate

# Theme 7 – Visual Literacy

#### What

Students learn to interpret and gain meaning from images and to use visuals effectively in their work

- Oral and written components
- Presentation with only pictures
- Problem-solving with graphs and pictorial representations
- Respond to images using lowinference prompts
- See, think, wonder approach
- Create visual, 3D representation of scientific phenomena

# Theme 8 – Role-play

#### What

Students advocate for the perspective of another person and practice non-verbal communication

- Focus on non-verbal cues to guess a person's role
- Opposing views partake in debates
- Practice respecting the views and opinions of others
- Make connections and shows relevance to daily lives

## Theme 9 – Online interaction

#### What

Students understand how online communication differs from face-to-face interaction, and learn how to navigate the online interface and social media

- Improve poorly written communication pieces received by teacher (i.e. emails)
- Use examples of what is and what is not appropriate to share on social media
- Discuss copyright material and how to find usage rights
- Learn that emotion can be lost in writing
- Understand permanence of online communication

# Theme 10 – Interpersonal training

#### What

Students build relational abilities and learn to respect the opinions of others without being critical

- Controversial topics
- Teach personal story behind scientific idea through a cultural lens to create emotional bridge for students to relate
- Logic is not more important than emotion
- Practice interviewing
- Break down barriers and develop relationships

## Conclusions



- All award-winning teachers emphasized that they did not have a communications unit, but that communication skills were incorporated into content
- All approaches documented were implemented in the context of science
- Resulting article will serve as a resource for science and agriculture teachers and add to the body of literature regarding teaching communication skills.

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