



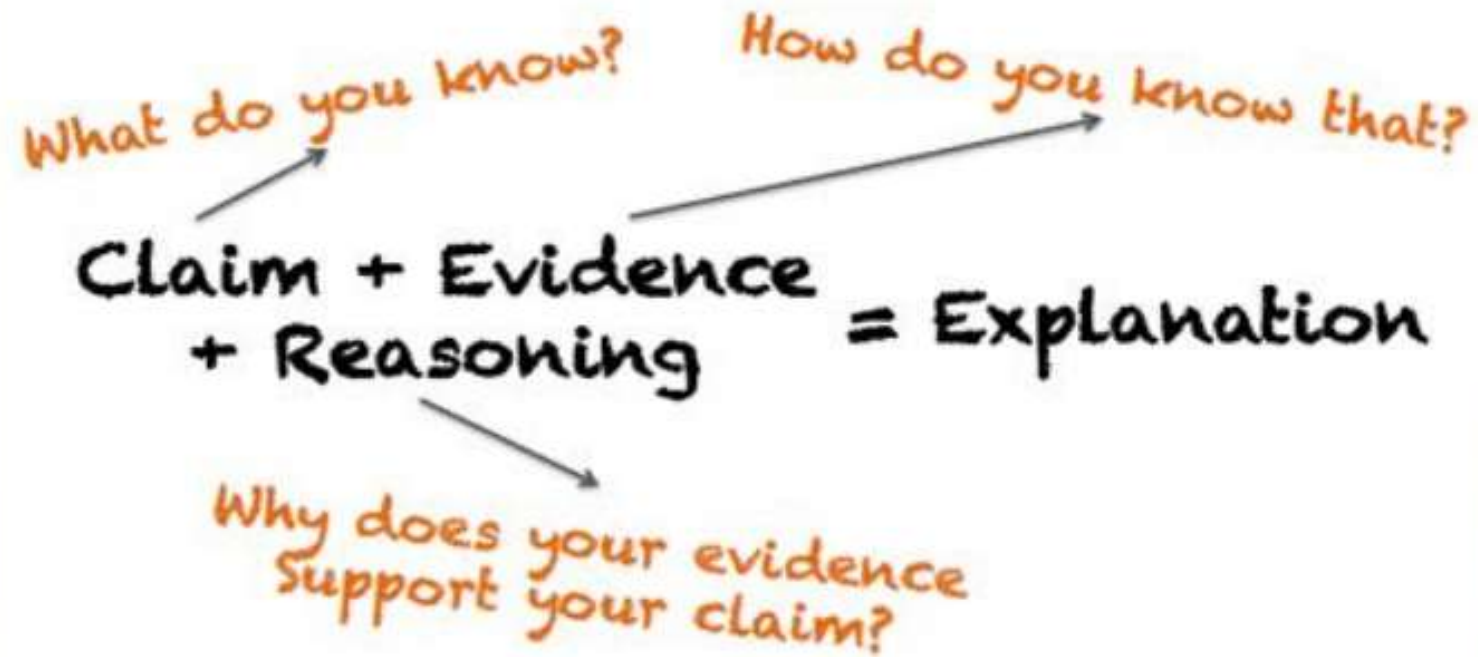
Writing Scientific Explanations

# What is a Scientific Explanation?

**Claim**

**Evidence**

**Reasoning**



### **Claim:**

- A statement that answers your question

### **Evidence for your claim:**

- Scientific data that support the claim
- Data need to be appropriate (pictures, graphs, table)
- Observation

### **Reasoning (how your evidence justifies your claim):**

- Based on scientific principles
- Each piece of evidence may have a different justification for why it supports the claim

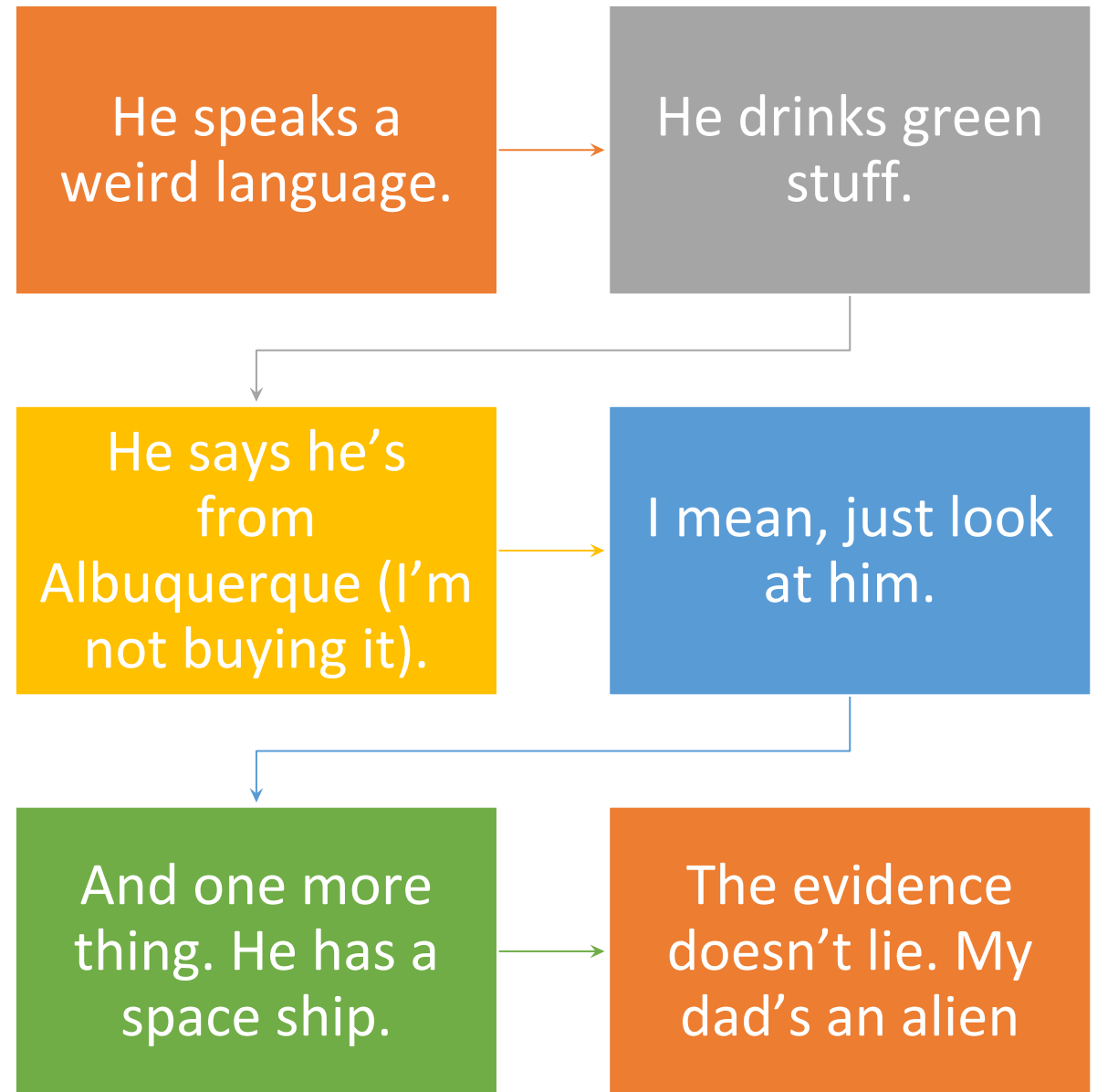
# My Dad is a Space Alien

Watch this video:

<https://www.youtube.com/watch?v=WQTsue0lKBk>



I have  
evidence that  
proves my  
Dad's a space  
alien.



# Writing a Scientific Explanation CER

**Question:**

**Claim:**

**Evidence:**

**Reasoning:**

# Writing a Scientific Explanation CER

**Question:** Who is my dad?

**Claim:** My Dad's a space alien

**Evidence:**

- He speaks a weird language
- He's from Albuquerque
- He drinks green liquids
- He dresses funny
- He drives a spaceship

**Reasoning:**

# Writing a Scientific Explanation CER

**Question:** Who is my dad?

**Claim:** My Dad's a space alien

**Evidence:**

- He speaks a weird language
- He's from Albuquerque
- He drinks green liquids
- He dresses funny
- He drives a spaceship

**Reasoning:**

~~The evidence doesn't lie~~



# Writing a Scientific Explanation CER

**Question:** Who is my dad?

**Claim:** My Dad's a space alien

## **Evidence:**

- He speaks a weird language
- He's from Albuquerque
- He drinks green liquids
- He dresses funny
- He drives a spaceship

## **Reasoning:**

- Aliens are not from Earth so they have their own language
- Some people believe that aliens have landed in NM
- Which is why many aliens are seen with green skin
- Aliens wear space suits for protection
- Aliens use spaceships to travel

# Your turn:

01

**Go into your channel team group.**

02

**Part 1:** Together you will observe the commercial or picture. As a team you will create a CER outline on the powerpoint slide (like we just did). This needs to be shared in your group and your teacher will approve.

03

**Part 2:** Once your teacher has approved your slide, each individual will write this up in paragraph form. Each member must submit their own paragraph on Blackboard.