

Functional Role:
Observer/Recorder



- ✎ Makes qualitative and quantitative observations
- ✎ Records data

Thinking Role:
Analyst



- ✎ What data will we need to answer our question?
- ✎ Analyze our data through graphs, charts, drawings and summaries. Does our evidence support our team's prediction.
- ✎ What questions do we still have?

Functional Role:
Supply Master



- ☐ Gathers and returns all materials
- ☐ Reports any missing or damaged materials immediately
- ☐ Ensure safe use of equipment, reports unsafe activities

Thinking Role:
Researcher



- ☐ What do we already know about this topic? Use other resources
- ☐ What materials will we need?
- ☐ Compare and contrast our results with another group's.
- ☐ How does this apply to the "real world"?

Functional Role:

Team Manager



- ⊕ Makes sure team stays on task
- ⊕ Encourages all members to participate
- ⊕ Keeps track of time

Thinking Role:

Prediction Manager



- ⊕ What is our key question?
- ⊕ What do we predict will happen and why?
- ⊕ What caused our results to turn out the way they did?
- ⊕ What theory best explains this?

Functional Role:

Procedure Specialist



- ☺ Reads instructions aloud
- ☺ Makes sure group follows steps correctly

Thinking Role:

Skeptic



- ☺ What procedures will we follow?
- ☺ Look for mistakes in our procedures or anomalies. What should be done differently?
- ☺ Is there another explanation for our results?

Planning Questions:

What is our key question?

What do we already know about this topic? (Use other resources)

What data will we need to answer our question?

What do we predict will happen and why?

What materials will we need?

What procedures will we follow?

Analysis Questions:

Analyze our data through graphs, charts, drawings and summaries.
Does our evidence support our team's prediction?

Look for mistakes in our procedures or anomalies. What should be done differently?

Compare and contrast our results with another group's.

What caused our results to turn out the way they did?

What theory best explains this?

Is there another explanation for our results?

What questions do we still have?

How does this apply to the "real world"?