

**Over-arching Question:**

What are the most essential attributes for ground-breaking scientists who impact the future in positive ways?

**Over-arching task:**

Tell a compelling story of the discovery of insulin in a way that inspires powerful future actions in a selected audience, using the most appropriate medium (graphic story, historical fiction, heritage minute video, radio drama, art panels, etc).

**Launch:**

Present students with a list of character attributes and ask that they select the six they believe are most essential for becoming a ground breaking scientist. Explain to students that a ground-breaking scientist is someone who works to bring about positive change for the common good. They use science to develop solutions to problems that afflict people and to improve the quality of life for all.

- |                 |                   |                           |
|-----------------|-------------------|---------------------------|
| > Curious       | > Humble          | > Big-picture thinker     |
| > Perseverant   | > Resilient       | > Socially aware          |
| > Innovative    | > Flexible        | > Data-driven             |
| > Knowledgeable | > Future oriented | > Culturally-sensitive    |
| > Open-minded   | > Ethical         | > Confident               |
| > Collaborative | > Selfless        | > Reflective (self-aware) |
| > Risk Taker    | > Kind            | > Others?                 |

After students have selected the attributes, invite them to rank the attributes from the most essential to least essential attribute for a ground breaking scientist. Encourage students to share how they made their decisions. As students discuss the reasoning behind their ranking draw out a set of criteria.

Criteria for a ground breaking scientist might include:

- contributes to the generation of new ideas
- expertly builds on existing knowledge
- works to make a positive difference
- meaningfully contributes to reaching a future-oriented goal;
- gathers evidence from a wide range of disciplines
- considers the moral/ethical implications of their work
- aware of both local and global contexts