

Introduction to Engineering – What Do Engineers Do?

Complete the questions below while your teacher presents What Is Engineering?

1. In your own words, describe the following terms:

Science

Technology

Engineering

Math

2. Draw a concept map that shows how the STEM careers are connected.

3. Complete two examples of how scientists, technologists, engineers, and mathematicians may work together when inventing or innovating a new product.

Example	Science	Technology	Engineering	Math

4. What is the difference between a need and a want?

5. Complete the chart below by listing our human needs and wants:

	Physical	Biological	Psychological
Needs			
Wants			

6. What is an engineer?

7. List examples of what an engineer does.

8. What is the difference between an invention and an innovation?

9. Why do you need to learn about engineering and technology?

Conclusion

1. What product or system would make your life better?
2. Is this an invention or an innovation?
3. What type(s) of engineer(s) might work on this project?