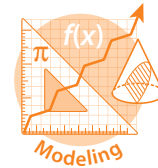


Name: _____

Date: _____

Conceptual Task: Engineering Polynomials

An engineering firm is designing a small roller coaster for an amusement park. An employee at the firm describes to the client how they are going to model the roller coaster mathematically, using polynomial functions.



SMP	
1	2 ✓
3	4 ✓
5	6
7 ✓	8

Engineer: We are going to use polynomials to model your roller coaster. With polynomials we are able to control the hills and valleys of the coaster.

Client: I know that polynomials can shoot way up at the ends. My coaster ends and begins on a flat platform. How will you account for that?

Engineer: That's a common problem. It is possible to make a model with multiple polynomials, "stitched" together at specified end points.

Client: OK, thanks!

