8.2) Modelling assumptions

Worked	examp	le

Your turn

List assumptions you would make to create a simple model of:

The motion of two objects of different masses connected by a string that passes over a pulley List assumptions you would make to create a simple model of: The motion of a golf ball after it is hit

Model the golf ball as a particle. Ignore the effects of air resistance. Ignore the rotational effect of any

external forces acting on it.

The motion of a child on a sledge going down a snow-covered hill

The motion of a suitcase on wheels being pulled along a path by its handle

Model the suitcase and handle as a single particle, consider the path to be smooth, and ignore friction

between the wheels and their holdings.