Design and Technology – Year 4

Autumn 2

Mechanical Systems Levers and linkages	• A fixed pivot is where the lever is fixed to the base it is attached to. • A loose pivot attaches two lever together but it is not attached to the base. • Using fixed and loose pivots in one mechanism makes different types of movement than just side to side or up and down.

Spring 2

Electrical Systems Simple circuits and switches	• A circuit is made up of a battery and wire. • An electrical circuit carries electricity from the battery along wires. • The circuit needs something to power like a bulb or a motor. • A switch can be added to the circuit so that it can be switched on or off.

Summer 2

Textiles 3-D products	• Textile is a type of cloth. • 2D (two dimensions) is a shape that has two measurements (e.g. width and height). It can't be picked up. • A 2D shape is a flat shape that cannot be used to hold anything. • 3D (three dimensions) is a shape that has three measurements (width, height, depth). It can be picked up. • A 3D shape has got side and can be used to put items in. • A piece of material can be folded to make a 3D shape.