

Practically speaking

Activities for WPG 'freeze frame' practical session

Brian Lee September 2021

Practical setups

on offer

- Newton's Cradle
- Slinky
- Racquet and ball
- Water dropper
- Splash
- Spilling wine
- Lens mug explosion

Newton's cradle

Freeze the action

- Set a number of spheres in motion
- Try different shutter speeds to stop them, apparently in mid air
- Try different angles to photograph the action
- Equipment needed - tripod, camera set on shutter priority with possibly auto ISO and ideally a remote



Caption

Slinky

Stop the spring in mid air

- Topple the slinky off the top step
- Try different shutter speeds to stop the slinky, apparently in mid air
- Try different angles to photograph the action
- Equipment needed - tripod, camera set on shutter priority with possibly auto ISO and ideally a remote
- High speed continuous shooting



Caption

Racquet and ball

Capture the ball in mid bounce

- Racquet clamped to desk
- Drop the powder coated ball onto the face of the racquet strings
- Try shooting from above the racquet face and also through the strings from underneath
- Equipment needed - tripod, camera set on shutter priority with possibly auto ISO and ideally a remote
- High speed continuous shooting



Caption

Water dropper

Demo

- Automated water dropper system
- Drops two successive water drops separated by a preset timing to create collision effects that yield interesting shapes and structures



Caption

Splash

Dropping items in a tank

- Fish tank filled with water
- Drop various items such as vegetables or fruit and capture them as they fall
- Equipment needed - tripod, camera set on shutter priority with possibly auto ISO and ideally a remote
- High speed continuous shooting

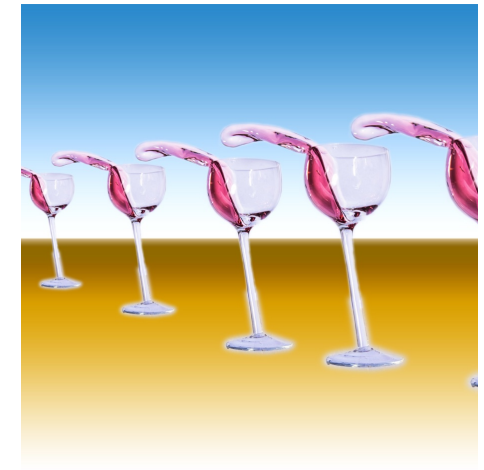


Caption

Spilling wine

Don't panic it's coloured water!

- Sliding rig assembly with wine glasses held captive and filled with coloured water
- Let the sliding ramp go and capture the action as the liquid spills from the glasses
- Equipment needed - tripod, camera set on shutter priority with possibly auto ISO and ideally a remote
- High speed continuous shooting



Caption

Lens mug explosion

TriggerTrap unit

- Lens mug fastened to a wooden base in a purpose made portable studio
- High speed photography achieved by tiny burst of flash lighting
- TriggerTrap unit fires the flash on sensing the vibration as a billiard ball hits the lentils in the mug and scatters them
- Equipment needed - tripod, camera set on shutter priority but at a 10secs exposure to give ample scope for recording the flash being triggered



Caption

Checklist

What you need to bring

Camera

Tripod

Remote

Camera manual