1. List of surgical entities relating to section or orthopedics:

Simple Fractures
Compound Fractures
Special Fractures, Spine, pelvis, femoral neck, carpal spine
Amputations: Elecive flap, delayed flap, guillotine
Drainage of joints
Joint fusion (arthrodesis)
Joint excision
Joint aspiration
Arthroplasty
Operations for internal derangements of joints, semilunar cartilage
Joint mouse removal
Joint adhesions (manipulation under anesthetic)
Wound excision
Wound incision
Bone grafting, Long bones (rigid grafts - onlay or inlay)
Spine fusion, lumbar or dorsal, (chip or shavings grafts - rigid grafts)
Spine fusion, cervical (graft plus wiring)
Tendon operations (tenotomy, lengthening, transplanting, repairing, drainage)
Reconstructive operations (hip mainly)
Plastic procedures (especially of toes and feet, ie hammer toes, bunions, ingrowing nails, soft corns, etc.)
Osteotomy
Tumors of bone, malignant and benign
Nonunion of bone
delayed union of bone
Neurectomy (for spastic conditions, etc.)
Scalenus anticus syndrome
Laminectomy
Intervertebral disk protrusions
Bone lengthening and bone shortening

2. The following is a list of operations which may be handled by the orthopedic section. They will, in many cases, be the same as was noted on the list of surgical entities.

Closed reduction of fractures and dislocations
Open reduction of fractures and dislocations
Internal fixation of fractures
Open operation, (plates, screws, wiring, bone grafting, bone suturing.)
Blind pinning
Amputations (these vary greatly with the size of the amputated part)
Guillotine, delayed flap, elective flap.
Incision and drainage of joints (infected)
Excision of Joints (severely damaged or infected with TB etc.)
Fusion of Joints (arthrodesis - for hopelessly damaged or diseased joints)
Arthroplasty
Semilunar cartilage removal (and other ops. for int. derangements of joints)
Removal of joint mice.
Manipulation of joints
Excision of wounds (battle injuries, compound fractures)
Incision of infected wounds, gas gangrene, etc.
Bone grafting (for non-union) long bones. Only or inlay rigid grafts.
Fusion of cervical spine
Fusion of dorsal and lumbar spine (rigid graft - chip or shavings grafts)
Tendon repair
  transplant
  lengthening
  division
Sheath drainage
Hip reconstructions, shelves, etc.
Plastic bunion operations
  hammer-toe operations
  bunionette op
  soft corn op
  5th toe corn op
  ingrown toe nail op
Osteotomy
Bone lengthening and shortening
Tumors of bone
  Local resection
  Radical resection
Amputation
Drilling of bone (for delayed union, etc.)
Neurectomy, tibial, obturator (for spastic conditions)
Scalenus anticus section
Intervertebral disk excision
Laminectomy

Mention of all the individual operations would simply involve copying the table of contents of Campbell's operative orthopedic text.

2. Basic Instrument Set:

All operations involving work with bone will require this basic set of instruments.

Note: Some items, such as tourniquets, retractors, etc. will depend on the location of the operation and the extent of the procedure to be done. Obviously, too, an osteotome 3/4" wide will have no possible use in an osteotomy of the proximal phalanx of a finger; in other words, some judgment must be used in interpreting any list such as this. This list will not include items of equipment which would normally be present in any general operating set -- only such instruments and other pieces of equipment which might possibly be omitted and which are necessary to the procedure are in the list.

3 sharp osteotomes 3/4", 1/2", and 1/4" widths. One narrower one for small operations
1 sharp Gouge 1/2" (1/4" for small jobs)
2 periosteal elevators 1/2" width (1/4" for small bones) one curved, one straight
1 Ochsner forceps 8" heavy (for grasping bone fragments)
2 Towel forceps, large, heavy, (for grasping bones)
2 Bone curettes (size to depend on size of bone) must be sharp
2 Ronguer forceps (size depends) 1 straight, 1 curved
2 bone cutting forceps (size depends) straight and curved
2 sharp retractors of proper size (rake type)
2 special retractors (for prying soft tissues back from bone)
1 Wooden or copper mallet

Operations involving internal fixation of bone
Use of the fracture table will be necessary for many bone operations if either the post-operative cast will require it, or control of the bone during the operation requires it.

1 hand drill
1 drill assortment 1/4" to 1/32"
Flexible stainless steel wire
Soft flexible silver or alloy wire (for threading sutures through holes, etc.)
Kangaroo tendon
Supply of vitallium or 13-8 stainless steel screws, plates, nails etc.
   (this item will often have to be arranged specially in advance)
1 plate holding bone clamp
2 lion jaw bone holding forceps
1 screw driver

4. Instrument set-up for special orthopedic operations

Small foot plastics

6 Halsted mosquito forceps
2 small sharp curets
1 small sharp osteotome
1 small sharp gouge
2 small scalpels
2 small dissecting scissors
2 small tissue forceps, 1 toothed, 1 plain
1 Martin bandage
1 small sterile rubber tube for tourniquet on toes, etc.
small needles, needles holders.
Silk

Amputations

3 scalpels
6 Ochsner forceps, 7 inch
6 Kelly forceps
6 Rankin forceps
1 Martin bandage
1 Esmarch tourniquet
1 hand bone saw
1 periosteal elevator
1 bone rasp or file
1 bone rongeur
1 bone cutting forceps
2 large toothed retractors
2 large ribbon retractors
1 syringes for alcohol
2 dissecting scissors
2 large toothed forceps
needle holders
needles
Section of anterior scalene muscle

Narrow, deep, smooth retractors, \( \frac{3}{4} \) to \( \frac{1}{2} \) inch wide
Assortment of aneurysm needles

Skeletal traction

Kirschner wire outfit
1 spreader with wrench
Supply of wires
1 wire drill
1 sharp pointed scalpel
1 wire cutter
Supply of small corks for covering ends of wire
Gauze dressings
Skin prep to be of mercresin and alcohol
1 traction outfit of ropes, pulleys, weights, etc.
Collodion

Pin traction outfit

1 drill with chuck which holds pins
1 assortment stinsmann pins
1 sharp pointed scalpel
1 skin prep outfit: applicators, mercresin, alcohol
1 mallet
1 supply corks for pin ends
Dressings of gauze
Collodion
Traction outfit, - wires, pulleys, ropes, weights, etc.

Joint fusions

Combine general bone set with bone graft set up if necessary. Special operations for feet, wrist, etc., will require small instruments.

Tendon operations

Allis forceps
Drills for implanting tendon into bone in certain cases
6 curved mosquito forceps
General operating set up otherwise

Bone graft

Regular bone set
Electric saw with 2 circular saw blades on shaft
Drill and outfit as for internal fixation set up.

Spinal fusion

Basic bone set
One special curved osteotome
Wire, pliers, wire cutters
2 Adson laminectomy retractors
Casts following operations:

Sterile stockinette
Sheet wadding
Felt
3 inch gauze bandage
Felot Scissors
Assorted 3 to 4 inch plaster bandages, in sufficient quantity
Box of dry, powdered plaster of Paris
Supply of small sticks for use as struts, etc., as in large spica casts
2 sharp plaster knives
2 indelible pencils
Buckets, water, salt, gloves