**Biodiversity Jenga game**

Students will be given a game of Jenga that has a different species taped to each block. The original Jenga tower will represent a healthy ecosystem. The order of the blocks should represent a food web. For example, producers such as sunlight, plants, etc. should go near the bottom since they are the source that feeds every other animal. Then smaller animals that feed on those plants should be stacked next. Finally, larger animals that feed on the smaller animals and plants should be near the top. Students will take turns removing a block which will resemble that particular species being completely removed/becoming extinct. When the students remove a block, they must generate an idea as to why/how the particular species is removed. (The rabbits die off because there is no more grass for them to eat, a strong storm wiped out a large number of the wolves and ruined their homes leaving the survivors without shelter, etc.) After the students remove the block they must add a new invasive species from a different pile/pool of Jenga blocks by placing it on the top of the tower.

There are 48 Jenga blocks per ecosystem…Colour the animals into their trophic list and add a table of what eats what. You may want to adapt the lists to suit your ecosystem.

**Tuckean Swamp**

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| **Plants** | **Animals/Predators** | **Invasive species** |
| Woollybutt  Laced Paperbark  Prickly Paperbark  Swamp Mahogany  Spotted Gum  Grey Ironbark  Knotweed  Jointed Twigrush  Tall Spikerush  Water Blades  Saw Sedge  Water Lily  Floating Pondweed  Algae  Cumbungi | Lace Monitor  Water rat  Water dragon  Echidna  Eastern Froglet  Peron’s Treefrog  Wallum Froglet  Little Pied Cormorant  Diving beetle  Australasian Bittern  Sacred kingfisher  Laughing Kookaburra  Swamp Harrier  Nankeen Kestrel  Masked Owl  Empire Gudgeon  Australian Smelt  Long-finned Eel  Purple Swamphen  Dragonfly  Waterboatman  Freshwater worm  Mosquito  Yabby  Swamp Wallaby  Ring-tailed Possum  Regent Honeyeater | Fox  Cat  Dog  Mosquito Fish  Lantana  Crofton Weed |

**Richmond River Estuary**

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| **Plants** | **Animals/Predators** | **Invasive species** |
| Common Reed  Swamp Oak  Broad-leaved Paperbark  Ribbonweed  Stackweed  Paddleweed  Algae  Samphire  Native celery  Native spinach  Sea Rush  Saltwater Couch | Luderick  Flathead  Bream  Leatherjacket  Whiting  Pied Cormorant  Osprey  White-bellied Sea-eagle  Bar-tailed Godwit  Sharp-tailed Sandpiper  Chestnut Teal  Little Tern  Crested Tern  Silver Gull  Great Egret  White-faced Heron  Striated Heron  Little Egret  Royal Spoonbill  Black Swan  Pelican  Sooty Oystercatcher  Regent Honeyeater  Striped Honeyeater  Swift Parrot  Polychaete Worms  Ghost Nipper  School Prawn  White’s Seahorse  Widebody Pipefish | Spiny Rush  Common Myna   House Sparrow  Morning Glory  Water Hyacinth  Parrots Feather |

**Big Scrub Rainforest**

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| **Plants** | **Animals/Predators** | **Invasive species** |
| Blackbutt  Casuarina  Red Cedar  Black Bean  Scrub Ironbark  Common lilly pilly  Black Wattle  Native Wisteria  Lomandra Hystrix  Cheese Tree  Bracken Fern  Bangalow Palm  Cabbage Tree Palm  White Bottle Brush  Red Carabeen | Echidna  Powerful Owl  Southern Boobook  Brown Goshawk  Diamond Python  Red-bellied Black Snake  Topknot Pigeon  Glossy Black-Cockatoo  Spotted-tailed Quoll  Greater Broad-nosed Bat  Grey-headed Flying Fox  Yellow-bellied Glider  Brushtail Possum  Long-nosed Bandicoot  Long-nosed Potoroo  Perons Tree Frog  Brush Turkey  Superb Lyrebird  Varied Sittella  Rainbow Lorikeet  Funnel Web Spider  St. Andrews Cross Spider  Cicada  Bull Ant  King Parrot  Regent Bowerbird  Superb Fairy Wren | Fox  Cat  Dog  Lantana  Privet  Camphor Laurel |