**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** |
| WoollybuttLaced PaperbarkPrickly PaperbarkSwamp MahoganySpotted GumGrey IronbarkKnotweedJointed TwigrushTall SpikerushWater BladesSaw SedgeWater LilyFloating PondweedAlgaeCumbungi | Lace MonitorWater ratWater dragonEchidnaEastern FrogletPeron’s TreefrogWallum FrogletLittle Pied CormorantDiving beetleAustralasian BitternSacred kingfisherLaughing KookaburraSwamp HarrierNankeen KestrelMasked OwlEmpire GudgeonAustralian SmeltLong-finned EelPurple SwamphenDragonflyWaterboatmanFreshwater wormMosquitoYabbySwamp WallabyRing-tailed PossumRegent Honeyeater | FoxCatDogMosquito FishLantanaCrofton Weed |

**Richmond River Estuary**

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| --- | --- | --- |
| **Plants** | **Animals/Predators** | **Invasive species** |
| Common ReedSwamp OakBroad-leaved PaperbarkRibbonweed Stackweed PaddleweedAlgaeSamphireNative celeryNative spinachSea RushSaltwater Couch | LuderickFlatheadBreamLeatherjacketWhitingPied CormorantOspreyWhite-bellied Sea-eagleBar-tailed GodwitSharp-tailed SandpiperChestnut TealLittle TernCrested TernSilver GullGreat EgretWhite-faced HeronStriated HeronLittle EgretRoyal SpoonbillBlack SwanPelicanSooty OystercatcherRegent Honeyeater Striped HoneyeaterSwift ParrotPolychaete WormsGhost NipperSchool PrawnWhite’s SeahorseWidebody Pipefish | Spiny RushCommon Myna House SparrowMorning GloryWater HyacinthParrots Feather |

**Big Scrub Rainforest**

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| --- | --- | --- |
| **Plants** | **Animals/Predators** | **Invasive species** |
| BlackbuttCasuarinaRed CedarBlack BeanScrub IronbarkCommon lilly pillyBlack WattleNative WisteriaLomandra HystrixCheese TreeBracken FernBangalow PalmCabbage Tree PalmWhite Bottle BrushRed Carabeen | EchidnaPowerful OwlSouthern BoobookBrown GoshawkDiamond PythonRed-bellied Black SnakeTopknot PigeonGlossy Black-CockatooSpotted-tailed QuollGreater Broad-nosed BatGrey-headed Flying Fox Yellow-bellied GliderBrushtail PossumLong-nosed BandicootLong-nosed PotorooPerons Tree FrogBrush TurkeySuperb LyrebirdVaried SittellaRainbow Lorikeet Funnel Web SpiderSt. Andrews Cross SpiderCicadaBull AntKing ParrotRegent BowerbirdSuperb Fairy Wren | FoxCatDogLantanaPrivetCamphor Laurel |