

THINK 10 - Farm Challenge – Voxels



Water Barn Fence Hay Forest Pig Sheep Stairs

10 20 18 4 10 12 6 8

On a farm you have limited building materials and can only afford so many animals. Build a farm that meets ALL the requirements below and uses exactly the number of blocks given above. Don't start building until you read them all!

- Build a **barn** that can be reached by all the animals without leaving their pen.
- There must be 4 **large pens** created that each touch the barn and the edge of the property. You may use **water, fence, and the side of the barn** to create these.
- Build a stream (**water**) that all the animals can reach to drink – it can also be used as a side of an animal pen.
- The barn has a water wheel inside, water can flow through the barn.
- Plant a **forest** to shade all the water for salmon, but no forest in the pens with animals.
- Build **stairs** to reach the top of the barn, from all 4 pen areas.
- Store **hay** on top of the barn, but it must touch the stairs.
- **Pigs** and **sheep** cannot be in pens next to each other.
- There must be two open pens (no animals).
- **Pigs** must be at least 2 spaces apart.
- **Sheep** must be at least 3 spaces apart.

Other Hints:

All structure are single story (layer) except stairs and hay which may sit on top of the barn.

The edges of the voxels grid already has a fence- it can be used as a side of the pen areas.

Animals are out in the fields you build, not in the barn.

Barns have unlimited doors. As long as part of the barn is in a fenced pen, animals can reach it.

Barns are solid structures, no holes in the barn.

GOOD LUCK!!