

S.T.E.A.M.

Aquaponics Handbook

Name:

Date:

Aquaponics Project Rubric

Refer to the table below when designing your aquaponics system.

	Great - 3 Points	Good - 2 Points	Not yet - 1 Point
Fish Tank/Pond	The size of my fish tank/pond matches the size of my plant growing area and the type of location the system is designed for.	The size of my fish tank/pond matches the size of my plant growing area.	I have included a fish tank/pond in my design.
Air Supply	I have included an air supply in the design of my fish tank and shown where the pipes and cables would run to/from. I can explain why I have chosen this particular type of air supply.	I have included an air supply in the design of my fish tank and shown where the pipes and cables would run to/from.	I have included an air supply in the design of my fish tank.
Plant Growing Area	The size of my plant growing area matches the size of my fish tank/pond and the type of location the system is designed for.	The size of my plant growing area matches the size of my fish tank/pond.	I have included a plant growing area in my design.
Gravel	My plant growing area includes gravel of a suitable size to support plants. The plant growing area is supported effectively to hold the weight of the gravel.	I have chosen gravel of a suitable size to support plants.	I have included gravel in my plant growing area.
Pipes and pumps	I have included a pump in relevant areas to ensure water moves effectively through pipes and included cables to power the pumps.	I have included a pump in relevant areas to ensure water moves effectively through pipes.	I have included pipes to connect the fish tank/pond to the growing area.

Design Space

Use this space to draw your design, list resources, work out measurements and whatever else you may need during the design process.

Reflection

Answer the questions below to reflect on your learning during this lesson.

What have you learnt about aquaponics?

What did you find easy when designing your aquaponics system?

What challenged you when designing your aquaponics system?

Is there anything you would do differently next time you complete a design task?

Do you think aquaponics systems are important? Why?

Have you completed your design (circle one)? Yes No

If no, explain below when you will complete it and what resources you will need:

When I will complete it:

What I will need:

Self Assessment

Return to the second page of the handbook and mark the rubric for your aquaponics design.

Teacher comments:

Teacher Assessment

This rubric will be completed by your teacher.

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