THIRDEYE SUIT PLANNING TEMPLATE

Part One: Needs Assessment

ThirdEye Agents: Use this form to plan super suits. Fill it out completely so your suit won't fail. - MJ

Secret Agent Names: Dan, Melissa, Teresa

What environment is your suit for? Flood Water

What does your suit need to do for people to survive the environment?

- One condition of the environment is Protection from bacteria & cold water.

  so the suit needs to Water proof Chemicals

  The **property** this relates to is:

  ((thermal protection))   (strength)   (flexibility)   (density)

  (usefulness as armor)   (camouflage)   (other: Water proof)

- One condition of the environment is electrical / gas protection

  so the suit needs to fire resistant + non conductive

  The **property** this relates to is:

  (thermal protection)   (strength)   ((flexibility))   (density)

  (usefulness as armor)   (camouflage)   (other:_____)

- One condition of the environment is animals - ants + snake

  so the suit needs to defensive ~~scales~~.

  The **property** this relates to is:

  (thermal protection)   ((strength))   (flexibility)   (density)

  ((usefulness as armor))   (camouflage)   (other:_____)

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What does your suit need to do for people to get food, shelter, and water? (Imagine your environment's resources. Be creative!)

- People in this environment will get food by _~~Breeteame~~ Getting to higher ground_

  so the suit needs to _able to go on land_
  _____

- People in this environment will get water by _using a lifestraw_

  so the suit needs to _or camping pills to disinfect contaminated water_
  _____

- People in this environment will get shelter by _~~go to~~ finding boat or higher ground._

  so the suit needs to _be adapted to land ~~island~~_
  _____

What other features do you want your suit to have? Start by writing down your wildest ideas:

Camo
Comfortable
Veniom proof
grips on hands + feet
Waterproof

As a team, narrow it down to the ideas most important to meet user needs:

waterproof
Grips

THIRDEYE SUIT PLANNING TEMPLATE

Part Two: Materials Choice

ThirdEye Agents: Use this form to plan super-suits. Fill it out completely so your suit won't fail. - MJ

Agent Names: _Dan, Melissa, Teresa_

What environment is your suit for? _flood Water_

What properties are most important for your suit? (Look back at your needs assessment).

(thermal protection)   (strength)   (flexibility)   (density)

(usefulness as armor)   (camouflage)   (other:_____)

What materials will you use for your suit? How much does each material cost? This should be a number from 1-10 from the materials table/toolbox. (You can layer materials. If you do, write the cost of both combined.)

Body (Arms/Legs/Chest/Back): _Aerographite 40%. 9_ Cost: _4_ 3.6
Kelvar - 60%.   2.4
                                                            6.0

Joints (Elbows/Knees/Ankles): _____ Cost: _4_

Hands: _____ Cost: _4_

Feet: _____ Cost: _4_

Add up your total cost: _18_

Max: 18
If your total is more,
you need to change
your materials.

THIRDEYE SUIT PLANNING TEMPLATE

What are your suit's weaknesses? What will your user need to be careful about? (To find out, look at the materials you chose: what properties do they have low numbers for?)

	A	K
Thermal protection	9	6
Flex	9	6
Density	2	7
Strength	8	8
Armor	8	8
Camo	0	0
Cost	9	4
Waterproof	X	Nathan

⬡ minimal weakness — We want to to be seen

THIRDEYE SUIT PLANNING TEMPLATE

Part Three: Rough Sketch

ThirdEye Agents: Use this form to plan super suits. Fill it out completely so your suit won't fail. - MJ

Agent Names: Dan, Melissa, Teresa

Draw a rough sketch of your suit below. Label important parts.
This doesn't need to be fancy. You'll do a final drawing later.

Kelvar grips

Weave — Combination of Aerographite & kelvar 60%.

Kelvar grips
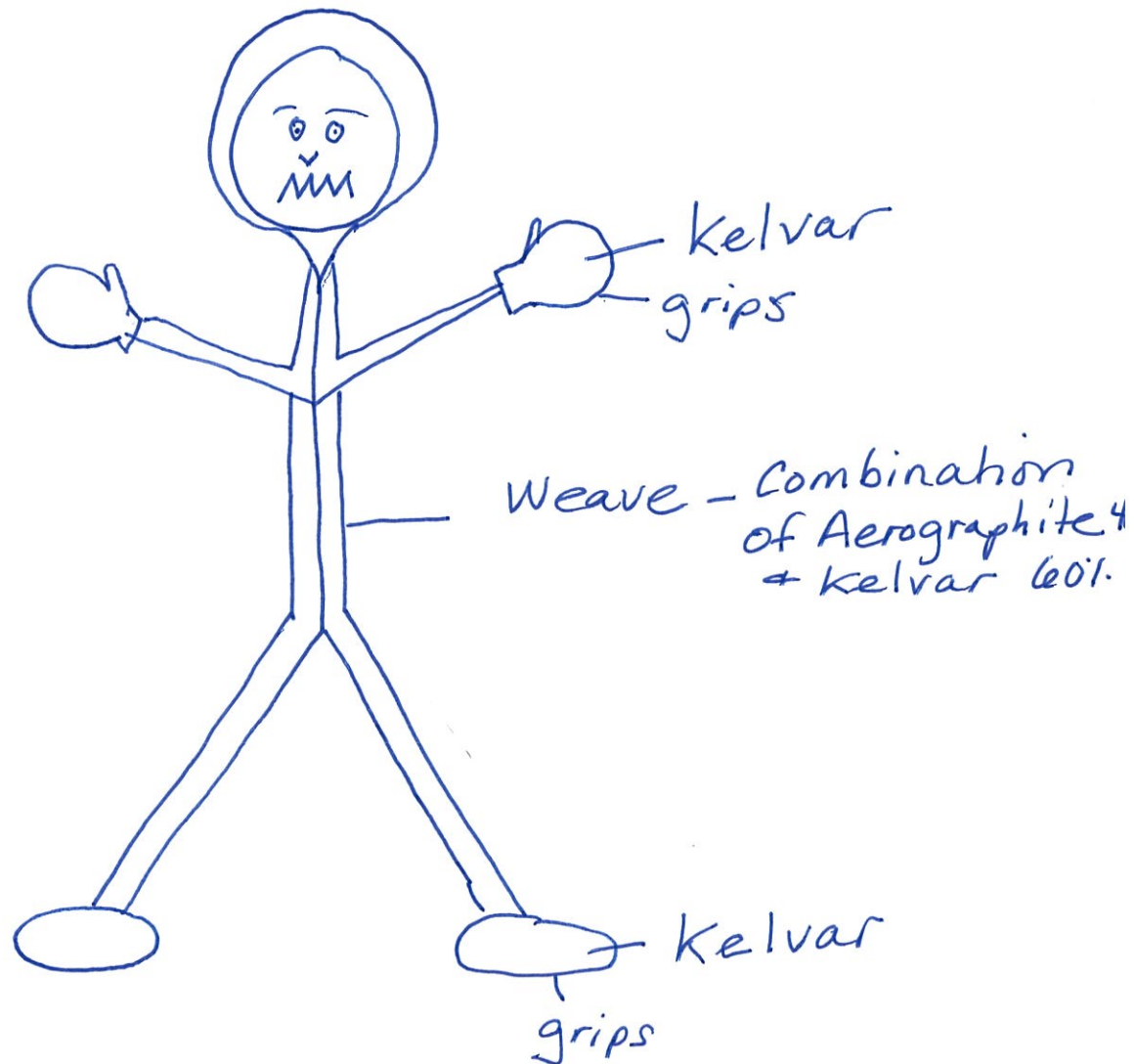
THIRDEYE SUIT PLANNING TEMPLATE

FINAL REPORT

Agent Names: Dan, Melissa, Teresa

Suit Name: <u>Dermara:</u> Ymlid dŵr - Welsh for water repellent

Designed for environment: Flood waters

Feedback from other agents was: Is kevlar heavy? Balanced budget -impressive

Improvements made were: Looked up kevlar

Suit should still be tested for these weaknesses: What weaknesses? Camo was the weakness but we want to be seen.

Total Cost: 18

On the back, provide a labeled drawing of the suit:
- Label all materials
- Label parts of the suit that meet needs based on the environment
  - *For example, "the joints are dyneema for flexibility – the jungle is difficult to travel in"*
- Make multiple drawings from multiple angles or include close-ups, if necessary

THIRDEYE SUIT PLANNING TEMPLATE
FINAL REPORT: LABELED DRAWING

Grips

Kelvar

weave - combination of
Aerographite (40%) +
Kelvar (60%)

Kelvar

Grips