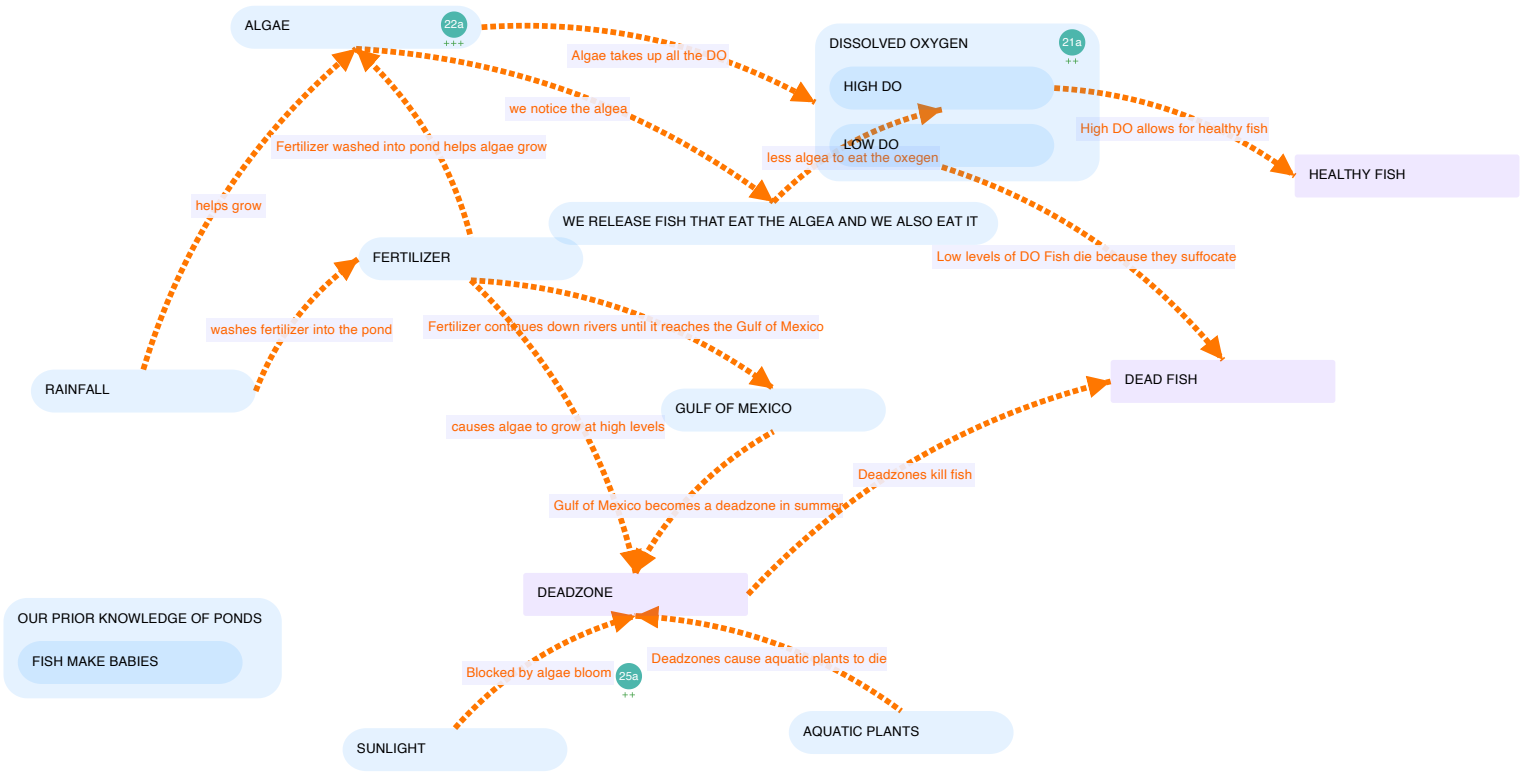
MODEL: Starfish Consensus Mo by Starfish Group

MRADKISSON : TEACHER



Model: Starfish Consensus Model

COMMENTS:

ENTITIES

LABEL: Algae
DESCRIPTION: It is a problem
COMMENTS:

LABEL: Dissolved Oxygen
DESCRIPTION:
COMMENTS:

LABEL: High DO
DESCRIPTION:
COMMENTS:

LABEL: Low DO
DESCRIPTION:
COMMENTS:

LABEL: Rainfall
DESCRIPTION:
COMMENTS:

LABEL: Fertilizer
DESCRIPTION:
COMMENTS:

LABEL: Sunlight
DESCRIPTION:
COMMENTS:

LABEL: Aquatic Plants
DESCRIPTION:
COMMENTS:

LABEL: Our prior knowledge of ponds
DESCRIPTION:
COMMENTS:

LABEL: Fish make babies
DESCRIPTION:
COMMENTS:

LABEL: Gulf of Mexico
DESCRIPTION:
COMMENTS:

LABEL: we release fish that eat the algea and we also eat it
DESCRIPTION: eat it
COMMENTS:

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LABEL: Dead Fish
DESCRIPTION:
COMMENTS:

LABEL: Healthy Fish
DESCRIPTION:
COMMENTS:

LABEL: Deadzone
DESCRIPTION:
COMMENTS:

PROCESSES

SOURCE: entity/Algae
TARGET: entity/Dissolved Oxygen
LABEL: Algae takes up all the DO
DESCRIPTION:
COMMENTS:

SOURCE: entity/Low DO
TARGET: outcome/Dead Fish
LABEL: Low levels of DO Fish die because they suffocate
DESCRIPTION:
COMMENTS:

SOURCE: entity/Rainfall
TARGET: entity/Algae
LABEL: helps grow
DESCRIPTION:
COMMENTS:

SOURCE: entity/Rainfall
TARGET: entity/Fertilizer
LABEL: washes fertilizer into the pond
DESCRIPTION:
COMMENTS:

SOURCE: entity/Fertilizer
TARGET: entity/Algae
LABEL: Fertilizer washed into pond helps algae grow
DESCRIPTION:
COMMENTS:

SOURCE: entity/High DO
TARGET: outcome/Healthy Fish
LABEL: High DO allows for healthy fish
DESCRIPTION:
COMMENTS:

SOURCE: entity/Fertilizer
TARGET: entity/Gulf of Mexico
LABEL: Fertilizer continues down rivers until it reaches the Gulf of Mexico
DESCRIPTION:
COMMENTS:

SOURCE: entity/Fertilizer
TARGET: outcome/Deadzone
LABEL: causes algae to grow at high levels
DESCRIPTION:
COMMENTS:

SOURCE: entity/Gulf of Mexico
TARGET: outcome/Deadzone
LABEL: Gulf of Mexico becomes a deadzone in summer
DESCRIPTION:
COMMENTS:

SOURCE: outcome/Deadzone
TARGET: outcome/Dead Fish
LABEL: Deadzones kill fish
DESCRIPTION:
COMMENTS:

SOURCE: entity/Sunlight
TARGET: outcome/Deadzone
LABEL: Blocked by algae bloom
DESCRIPTION:
COMMENTS:

SOURCE: entity/Aquatic Plants
TARGET: outcome/Deadzone
LABEL: Deadzones cause aquatic plants to die
DESCRIPTION:
COMMENTS:

SOURCE: entity/Algae
TARGET: entity/we release fish that eat the algea and we also eat it
LABEL: we notice the algea
DESCRIPTION:
COMMENTS:

SOURCE: entity/we release fish that eat the algea and we also eat it
TARGET: entity/High DO
LABEL: less algea to eat the oxegen
DESCRIPTION:
COMMENTS:

EVIDENCE LIBRARY

(1) Our Ideas

NOTES:

No evidence

(17) Story Setup

NOTES:

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(18) Farmer's Inventory List

NOTES:

No evidence

(19) Water Quality

NOTES:

No evidence

(20) Dissolved Oxygen in Tanks

NOTES:

No evidence

(21) Dissolved Oxygen in Blue Pond

NOTES:

Evidence 21a
DESCRIPTION: Dissolved oxygen levels decrease from algae in the summer
TARGET: entity/Dissolved Oxygen
RATING: 2
WHY:
SCREENSHOT: /screenshots/kvmevstt.jpg

COMMENTS:

(22) Algae and Oxygen

NOTES:

Evidence 22a
DESCRIPTION: Algae sucks up dissolved oxygen faster than the fish
TARGET: entity/Algae
RATING: 3
WHY:
SCREENSHOT: /screenshots/kvmeqp65.jpg

COMMENTS:

(23) Algae Growth

NOTES:

No evidence

(24) Fish Autopsy Results

NOTES:

No evidence

(25) Algal Blooms and Deadzones

NOTES:

Evidence 25a
DESCRIPTION: Deadzones cause algal blooms, which block sunlight, take up oxygen, and kill fish and other plants
TARGET: process/Blocked by algae bloom
RATING: 2
WHY:
SCREENSHOT:

COMMENTS:

(26) Fertilizer and Farms

NOTES:

No evidence