

1. **acoustic proximity fuze:** a trigger that is triggered when a sound is heard within a specific proximity
source: [[@en.wikipedia.org/wiki/Proximity_fuze#Acoustic](https://en.wikipedia.org/wiki/Proximity_fuze#Acoustic)]
category: noun
data: acoustic sensor (static, used to listen), Trigger (dynamic, activates when sensor reads a specific threshold.)
control: sensor tells trigger when to activate
behavior: naval mines utilize an acoustic fuze to detonate.
role: processing, process incoming data from sensor
pattern: creational, must be defined, Structural, it's a part of a bigger system
concern: controller, gets data, and manipulates a model
difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: a check box that is labeled and will be checked when activated
2. **acoustic sensor:** sensors that detect sound via microphone
source: [[@www.sunmantechology.com/system-ip/acoustic-sensors.html](http://www.sunmantechology.com/system-ip/acoustic-sensors.html)]
category: noun
data: Microphone (static, doesn't move)
control: listens for sound and sends data to system
behavior: used to detect incoming aircrafts
role: input, gets data so that the other systems can act on that data
pattern: creational, must be defined, structural, a part of a larger system
concern: view, gets input to controller to be processed
difficulty: hard, code that can locate objects by reflecting waves off them
risk: high, if done wrong units unable to see underwater
presentation: small circle with a label, displays details when clicked on
3. **acquisition process:** the process in which a target is acquired.
source: [[@en.wikipedia.org/wiki/Military_acquisition](https://en.wikipedia.org/wiki/Military_acquisition)]
category: noun
data: target (Dynamic, could be moving location), a retriever (Dynamic, going after the target)
control: target is the subject of interest, retriever goes to acquire the target
behavior: units need to preform acquisition process to acquire resources
role: processing, it's a process
pattern: behavioral, describes the behavior of an object
concern: view, to keep track of the location of the object
difficulty: moderate, has to do with movement of objects
risk: high, if done wrong, objects might not be able to move corectly
presentation: dotted line and arrow showing path of movement, labeled
4. **active radar sensor:** a sensor that uses a radar transmitter and a receiver, to locate objects
source: [[@en.wikipedia.org/wiki/Radar](https://en.wikipedia.org/wiki/Radar)]
category: noun
data: receiver (static, it does not move), transmitter (static, it does not move)
control: it can send radar waves to identify useable obstacles
behavior: used to identify enemy units.
role: input, gets data so that the other systems can act on that data
pattern: creational, must be defined, structural, a part of a larger system

concern: view, gets input to controller to be processed
difficulty: hard, code that can locate objects by reflecting waves off them
risk: high, if done wrong units unable to see underwater
presentation: small circle with a label, displays details when clicked on

5. **active sonar sensor**: a sensor that uses a sound transmitter and a receiver, to locate objects
source: [[@en.wikipedia.org/wiki/Sonar#Active_sonar](https://en.wikipedia.org/wiki/Sonar#Active_sonar)]
category: noun
data: receiver (static, it does not move), transmitter (static, it does not move)
control: it can send sonar waves to identify useable obstacles
behavior: used to identify enemy units.
role: input, gets data so that the other systems can act on that data
pattern: creational, must be defined, structural, a part of a larger system
concern: view, gets input to controller to be processed
difficulty: hard, code that can locate objects by reflecting waves off them
risk: high, if done wrong units unable to see underwater
presentation: small circle with a label, displays details when clicked on
6. **actuator**: a component of a machine that is responsible for moving and controlling a mechanism or system
source: [[@en.wikipedia.org/wiki/Actuator](https://en.wikipedia.org/wiki/Actuator)]
category: noun
data: Control signal (dynamic, the signal can change) source of energy (static the source of energy doesn't move)
control: it can convert energy into mechanical motion
behavior: an actuator can open a valve when signaled to
role: output, it preforms an action once it receives a signal
pattern: creational, it must be defined, structural, it is part of a larger system.
concern: model, it gets manipulated, controller, it manipulates
difficulty: moderate, must take in input, and execute and action
risk: high, if done wrong, actions could have unwanted consequences
presentation: a small switch that lights up when activated
7. **attenuation**: the reduction of the amplitude of a signal, electric current, or other oscillation.
source: [[@en.wikipedia.org/wiki/Attenuation](https://en.wikipedia.org/wiki/Attenuation)]
category: noun
data: material (Static, the material doesn't change) the waves (Dynamic, change as the pass through the material)
control: can be used for sound dampening
behavior: used in ships for dampening the sound of the motors
role: output, it's a result of waves moving through a material
pattern: behavioral, describes the behavior of waves
concern: controller, controls the way waves interact with different substances
difficulty: hard, there are many different waves and different materials to account for
risk: moderate, relatively simple code
presentation: show the waves fade while going through an object
8. **battleship**: a heavy warship with extensive armor and large-caliber guns.
source: [[@en.wikipedia.org/wiki/Battleship](https://en.wikipedia.org/wiki/Battleship)]
category: noun
data: Movement (Dynamic, changing location), Attacking (Dynamic, firing weapons)

control: it can fire weaponry, and travers the water
behavior: it's used in military operations to attack enemy naval units
role: output, military unit used to attack and defend on water
pattern: creational, because it must be defined
concern: model because its manipulated, view because we need to see the state
difficulty: hard, it involves motion
risk: high because it involves code for motion, shooting, and targeting
presentation: a labeled green 2D outline of a boat

9. **bomb**: an explosive weapon, utilizing the exothermic reaction of explosive material
source: [[@en.wikipedia.org/wiki/Bomb](https://en.wikipedia.org/wiki/Bomb)]
category: noun
data: explosive material (Dynamic, explodes), fuze (Dynamic, triggers the explosion)
control: it can explode
behavior: used to cause extreme damage from a distance
role: output, causes an explosion
pattern: creational, because it must be defined, structural because they can be part of other weapons
concern: model, because it gets manipulated, view to see its state
difficulty: moderate, it involves code that effects the surrounding area
risk: high, could detonate premature, or not at all
presentation: large red circle, labeled

10. **bomber aircraft**: a military aircraft that attacks ground targets by dropping bombs
source: [[@en.wikipedia.org/wiki/Bomber](https://en.wikipedia.org/wiki/Bomber)]
category: noun
data: Movement (Dynamic, changing location), Attacking (Dynamic, firing weapons)
control: it can attack ground targets by dropping bombs on them
behavior: it's used to cause heavy damage to ground targets with low risk to the actual unit
role: output, military unit used to attack ground from air
pattern: creational, because it must be defined
concern: model because its manipulated, view because we need to see the state
difficulty: hard, it involves motion
risk: high because it involves code for motion, shooting, and targeting
presentation: a labeled green 2D outline of a plane

11. **countermeasure**: a measure or action taken to offset another action
source: [[@en.wikipedia.org/wiki/Countermeasure](https://en.wikipedia.org/wiki/Countermeasure)]
category: noun
data: movement (Dynamic, changing location)
control: it can offset another action
behavior: used to prevent an undesirable outcome
role: output, an action taken in response to another action
pattern: behavioral, its how an object responds
concern: view, has to do with the state of the object
difficulty: hard, has to do with motion and interaction with other objects
risk: high, if done wrong, countermeasures could fail or not work
presentation: dotted line and arrow showing path of movement, labeled

12. **cross-section/reflectivity**: a measure of an objects' reflectivity
source: [[@copradar.com/chapts/chapt3/ch3d6.html](https://copradar.com/chapts/chapt3/ch3d6.html)]

category: noun
data: reflectivity (Static, a property of an object)
control: knowing the reflectivity allows us to tell the type of material
behavior: used to tell whether something on the radar is a threat or not
role: input, data that other systems can act on
pattern: structural it is a component of another object
concern: view, sends data to the controller
difficulty: easy, just a simple property
risk: moderate, if done wrong can cause objects to be distinguished incorrectly
presentation: I don't see a need to have a visual of this one

13. **defensive maneuver:** a type of movement employed to deny an attack from enemy weapons or units

source: [[@www.flightsimbooks.com/f15strikeeagle/05_04_Defensive_Maneuvers.php](http://www.flightsimbooks.com/f15strikeeagle/05_04_Defensive_Maneuvers.php)]

category: noun
data: attacker (dynamic, attacking), defender (Dynamic, changing location)
control: movement to deny incoming attacks
behavior: captains use defensive maneuvers to evade enemy fire
role: output, it's a result of the input of the captain
pattern: behavioral, it is a way to manipulate an object
concern: view, has to do with the state of the ship
difficulty: moderate, involves motion of an object
risk: high, it involves motion
presentation: dotted line and arrow showing path of movement, labeled

14. **depth charge:** an anti-submarine warfare weapon

source: [[@www.ussslater.org/tour/weapons/dpthchrg/dpthchrg.html](http://www.ussslater.org/tour/weapons/dpthchrg/dpthchrg.html)]

category: noun
data: depth fuze (Dynamic, triggers explosion), charge (Dynamic, explodes)
control: it can explode at specific depths
behavior: used to attack submarines
role: output, a weapon used in response to nearby enemies
pattern: creational, because it must be defined
concern: view, to see state, model, because it is manipulated
difficulty: easy, takes in data and acts on the data
risk: moderate, if done wrong the charge could detonate too early
presentation: large red circle, labeled

15. **depth fuze:** a trigger that activates at a designated depth

source: [[@en.wikipedia.org/wiki/Fuze](http://en.wikipedia.org/wiki/Fuze)]

category: noun
data: depth sensor (static, recording data), trigger (Dynamic, activates)
control: it can trigger a weapon to fire once something enters a specific depth.
behavior: it is used to cause weapons to activate once a target enters a specific depth.
role: processing, it takes in an input and gives out an output
pattern: behavioral, communicates between two objects
concern: controller, updates the object it's connected to after receiving input
difficulty: easy, takes an input, then processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: a check box that is labeled and will be checked when activated

16. **destroyer:** a fast, maneuverable, and long-endurance warship

source: [[@en.wikipedia.org/wiki/Destroyer](http://en.wikipedia.org/wiki/Destroyer)]

category: noun

data: Movement (Dynamic, changing location), Attacking (Dynamic, firing weapons)

control: protects larger ships, attacks enemy ship

behavior: attacks other ships, maneuvers in water

role: output, military unit used to attack and defend in the water

pattern: creational, because it must be defined

concern: model because its manipulated, view because we need to see the state

difficulty: hard, it involves motion

risk: high because it involves code for motion, shooting, and targeting

presentation: a labeled green 2D outline of a boat

17. **distance fuze**: a trigger that activates at a designated distance from a target

source: [[@en.wikipedia.org/wiki/Fuze#Proximity_fuze](http://en.wikipedia.org/wiki/Fuze#Proximity_fuze)]

category: noun

data: distance sensor (Static, records data), trigger (Dynamic, activates)

control: it can trigger a weapon to fire once something enters a specific distance.

behavior: it is used to cause weapons to activate once a target enters a specific distance.

role: processing, it takes in an input and gives out an output

pattern: behavioral, communicates between two objects

concern: controller, updates the object it's connected to after receiving input

difficulty: easy, takes an input, the processes the input and provides an output

risk: moderate, if done wrong, weapons wouldn't work properly or even at all

presentation: a check box that is labeled and will be checked when activated

18. **engagement process**: the process in which one unit engages another unit

source: [[@en.wikipedia.org/wiki/Engagement_\(military\)](http://en.wikipedia.org/wiki/Engagement_(military))]

category: noun

data: a target (Dynamic, it could be moving) engager (Dynamic, moving toward target)

control: the process in which one force engages another force

behavior: describes the way in an object(s) engages another object(s)

role: processing, it's a process that will end with an outcome

pattern: behavioral, have an object behaves

concern: view, how an object moves

difficulty: moderate, has to do with movement of objects

risk: high, if done wrong, objects might not be able to move when needed

presentation: dotted line and arrow showing path of movement, labeled

19. **evasive maneuver**: movement to avoid incoming obstacles

source: [[@memory-alpha.wikia.com/wiki/Evasive_maneuvers](http://memory-alpha.wikia.com/wiki/Evasive_maneuvers)]

category: noun

data: attacker (Dynamic, attacking) operator (Dynamic, Evading the attacker)

control: movement to avoid incoming obstacles

behavior: captains use evasive maneuvers to evade enemy fire

role: output, it's a result of the input of the captain

pattern: behavioral, it is a way to manipulate an object

concern: view, has to do with the state of the ship

difficulty: moderate, involves motion of an object

risk: high, it involves motion

presentation: dotted line and arrow showing path of movement, labeled

20. **fighter aircraft**: a military aircraft designed primarily for air to air combat
source: [[@en.wikipedia.org/wiki/Fighter_aircraft](https://en.wikipedia.org/wiki/Fighter_aircraft)]
category: noun
data: Movement (Dynamic, changing location), Attacking (Dynamic, firing weapons)
control: flies, and fires weapons
behavior: used in air to air military operations
role: output, military unit used to attack and defend in the air
pattern: creational, because it must be defined
concern: model because its manipulated, view because we need to see the state
difficulty: moderate, it involves motion
risk: high because it involves code for motion, shooting, and targeting
presentation: a labeled green 2D outline of a plane
21. **lethality process**: the process in which something is lethal
source: [[@en.wikipedia.org/wiki/Lethality](https://en.wikipedia.org/wiki/Lethality)]
category: noun
data: a weapons lethality (Static, value)
control: the process that makes a weapon lethal
behavior: a missile being fired at a target
role: processing, it's a process
pattern: behavioral, it describes the behavior of an object
concern: controller, it manipulates a model
difficulty: hard, since the process can very based on the weapon or object
risk: high, if done wrong weapons would not function as expected
presentation: I don't see a need to have a visual of this one
22. **main battery gun**: the primary weapon or group of weapons around which a warship is designed
source: [[@en.wikipedia.org/wiki/Main_battery](https://en.wikipedia.org/wiki/Main_battery)]
category: noun
data: aiming (Dynamic, changing targets), firing (Dynamic, attacking)
control: can aim and launch projectiles at targets, dynamic, it moves
behavior: used to attack enemy units in time of battle
role: output, it is a weapon that supports in attacking and defending
pattern: creational because it must be defined, structural because it's a part of warships
concern: model because its manipulated, view because we need to see the state
difficulty: moderate, it involves motion
risk: high because it involves code for motion, shooting, and targeting
presentation: red labeled cylinder
23. **missile**: guided, self-propelled system with a warhead
source: [[@en.wikipedia.org/wiki/Missile](https://en.wikipedia.org/wiki/Missile)]
category: noun
data: guiding system (dynamic, adjusting trajectory), rocket (Dynamic, changing the location), warhead (Dynamic, explodes)
control: it can propel itself to a target and explode
behavior: used to inflict large amounts of damage to enemies
role: output, it's a weapon for destroying stuff
pattern: creational, because it must be defined, behavioral, because the guiding system
concern: model, because it's something that's manipulated.
difficulty: hard, its composed of many sub systems that all must work together
risk: high risk because of all the different components having to work together

presentation: a labeled green 2D outline of a missile

24. **mobility process:** the process in which a weapons system or combat unit moves

source: [[@en.wikipedia.org/wiki/Mobility_\(military\)](https://en.wikipedia.org/wiki/Mobility_(military))]

category: noun

data: location (Static, location to be moved to)

control: it can move a combat unit to a military objective

behavior: moving a ship to a location requested

role: output, its how a ship moves from one location to another

pattern: behavioral, how a ship behaves

concern: view, alters the state of the ship

difficulty: moderate, must deal with moving objects

risk: moderate, must hand code for movement

presentation: dotted line and arrow showing path of movement, labeled

25. **munition:** materials of war, weapons, ammunition, armaments

source: [[@en.wiktionary.org/wiki/munition](https://en.wiktionary.org/wiki/munition)]

category: noun

data: materials of war (Dynamic, they get used)

control: can be used to attack or defend in military combat

behavior: used in military combat to attack and defend

role: input, because they get used

pattern: creational, because they must be defined

concern: model, they get manipulated

difficulty: moderate, each one needs to be defined

risk: high, if done wrong the actions of the munition wouldn't work

presentation: red labeled square

26. **offensive maneuver:** a type of maneuver to put a ship in an offensive position

source: [[@en.wikipedia.org/wiki/Basic_fighter_maneuvers](https://en.wikipedia.org/wiki/Basic_fighter_maneuvers)]

category: noun

data: a target (Dynamic, it could be moving) attacker (Dynamic, moving toward target)

control: helps an attacker get the upper hand in a confrontation

behavior: a captain uses an offensive maneuver to get the upper hand on the enemy ship

role: output, it's a result of the input of the captain

pattern: behavioral, it is a way to manipulate an object

concern: view, has to do with the state of the ship

difficulty: moderate, involves motion of an object

risk: high, it involves motion

presentation: dotted line and arrow showing path of movement, labeled

27. **passive radar sensor:** a sensor that picks up radar waves without giving any off

source: [[@en.wikipedia.org/wiki/Passive_radar](https://en.wikipedia.org/wiki/Passive_radar)]

category: noun

data: receiver (Static, reads waves)

control: reads radar waves that transmit from third party transmitters

behavior: used to detect objects or enemy ships without being detected

role: input, it collects data

pattern: creational because it must be defined

concern: controller, updates the object it's connected to after receiving input

difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: small circle with a label, displays details when clicked on

28. **passive sonar sensor**: sensor that reads sonar waves without giving any off

source: [[@en.wikipedia.org/wiki/Sonar#Passive_sonar](https://en.wikipedia.org/wiki/Sonar#Passive_sonar)]
category: noun
data: receiver (Static, reads waves)
control: it can listen to sonar waves, without transmitting any
behavior: used to listen for enemy subs or mines
role: input, it collects data
pattern: creational because it must be defined
concern: controller, updates the object it's connected to after receiving input
difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: small circle with a label, displays details when clicked on

29. **power**: a quantitative measurement of energy

source: [[@https://en.wikipedia.org/wiki/Power_\(physics\)](https://en.wikipedia.org/wiki/Power_(physics))]
category: noun
data: amount of energy (Dynamic, the amount of energy can change)
control: it can cause damage, be read by sensors, or used to cause actions
behavior: heat sensors read the amount of power in the form of temperature
role: input, when being read as data, output when being used to cause an action
pattern: creational, because it must be defined, structural because it is a part of some objects
concern: model because it can be manipulated, view so we can see the state
difficulty: easy, this is more of an attribute to be read
risk: high, if done wrong interactions between objects can fail
presentation: I don't see a need to have a visual of this one

30. **radar proximity fuze**: a trigger that activates when radar waves come within range

source: [[@en.wikipedia.org/wiki/Fuze#Proximity_fuze](https://en.wikipedia.org/wiki/Fuze#Proximity_fuze)]
category: noun
data: radar sensor (static, reads data), trigger (Dynamic, activates)
control: it can trigger a weapon to fire after once something enters its radar.
behavior: it is used to cause weapons to activate once an object enters a specific radar.
role: processing, it takes in an input and gives out an output
pattern: behavioral, communicates between two objects
concern: controller, updates the object it's connected to after receiving input
difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: a check box that is labeled and will be checked when activated

31. **sensor**: a data collection device

source: [[@en.wikipedia.org/wiki/Sensor](https://en.wikipedia.org/wiki/Sensor)]
category: noun
data: sensor (Dynamic, reads data)
control: can collect data and report that data to another system
behavior: used to collect data, and report to different systems
role: input, it collects data
pattern: creational because it must be defined

concern: view, because it sends input to the controller
difficulty: easy, all it must do is send data
risk: low, not any moving parts
presentation: small circle with a label, displays details when clicked on

32. **sensor fusion:** software made to combine data from multiple sensors
source: [@en.wikipedia.org/wiki/Sensor_fusion]
category: noun
data: data (Static, inputted data)
control: able to combine data from many sensors
behavior: used to combine data do there are less uncertainties
role: processing, because it's manipulating the data it receives.
pattern: behavioral, because its acting on input to perform a function
concern: controller, because it acts on data
difficulty: hard, combining multiple sets of data and making it all work has many ways to fail
risk: high, if done wrong it could cause issues in many other places
presentation: I don't see a need to have a visual of this one

33. **submarine:** a vehicle able to maneuver under and on top of water
source: [@en.wikipedia.org/wiki/Submarine]
category: noun
data: composed of many systems, like maneuvering, weapons, ect (Dynamic, because there is motion)
control: it can dive under water, rise above water, change direction and launch weapons
behavior: they are used to survey waters and create blockades from enemies
role: output, because it is a vehicle used for military practices
pattern: creational because it must be defined, structural because it is made of many parts
concern: model because it is something manipulated
difficulty: hard, because it is made up of many smaller parts
risk: high because if any part is wrong it could cause issues.
presentation: a labeled green 2D outline of a submarine

34. **thermal proximity fuze:** an object to trigger another object do to temperature
source: [@en.wikipedia.org/wiki/Fuze#Proximity_fuze]
category: noun
data: thermal sensor (Static, just collects data) trigger (Dynamic, triggers action)
control: it can trigger a weapon to fire after once it reaches a specific temperature.
behavior: it is used to cause weapons to activate once a the fuze hits a specific temperature.
role: processing, it takes in an input and gives out an output
pattern: behavioral, communicates between two objects
concern: controller, updates the object it's connected to after receiving input
difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if done wrong, weapons wouldn't work properly or even at all
presentation: a check box that is labeled and will be checked when activated

35. **thermal sensor:** a data collection device that collects data on temperature
source: [@www.cpinc.com/Terice/Temperature/63%20-%2064%20temperature.pdf]
category: noun
data: data collector (Static, does not move)
control: it collects data of temperature and sends that data off to be processed
behavior: takes in data and sends data to be analyzed

role: input, collects data and sends it to process
pattern: behavioral, used to determine the behavior of what's it connected to.
concern: controller, because it manipulates how the model should behave
difficulty: easy, should just be a simple piece of data collection script
risk: low risk because it shouldn't be all that hard to write
presentation: small circle with a label, displays details when clicked on

36. **timed fuze**: a trigger that activates after a set period
source: [[@en.wikipedia.org/wiki/Fuze#Time_fuze](https://en.wikipedia.org/wiki/Fuze#Time_fuze)]
category: noun
data: timer (dynamic, timer changes), trigger (dynamic, used to activate)
control: it can trigger a weapon to fire after a set period.
behavior: it is used to be able to delay the activation of a weapon after its been triggered.
role: processing, it takes in an input and gives out an output
pattern: behavioral, communicates between two objects
concern: controller, updates the object it's connected to after receiving input
difficulty: easy, takes an input, the processes the input and provides an output
risk: moderate, if down wrong, weapons wouldn't work properly or even at all
presentation: a check box that is labeled and will be checked when activated
37. **torpedo**: a self-propelled weapon with an explosive warhead
source: [[@en.wikipedia.org/wiki/Torpedo](https://en.wikipedia.org/wiki/Torpedo)]
category: noun
data: thruster (dynamic, used to move the whole object), warhead (dynamic, it explodes)
control: it can propel its self through water and explode either on contact with an object or in proximity to an object
behavior: used in war to damage enemy ships
role: output, it is a result of
pattern: behavioral, because this acts on an object
concern: controller, because it responds to input and acts on another object
difficulty: moderate, this must respond to one object and act on another object
risk: moderate risk, since it has to interact with other object giving opportunity for failure.
presentation: small red triangle with a T in the middle
38. **triangulation**: a process using geometry using triangles to locate an object
source: [[@en.wikipedia.org/wiki/Triangulation](https://en.wikipedia.org/wiki/Triangulation)]
category: noun
data: known objects (static, not moving), unknown object (dynamic, could be moving)
control: it can find location of points by forming triangle to it from known points
behavior: used to locate ships or objects of interest
role: processing because it is a process using data from the environment
pattern: behavioral because it's a process acting on data
concern: controller because it responds to the input given
difficulty: easy because it's just a simple math mathematical equation
risk: moderate, if someone were to mess up the equation it would not work
presentation: show the triangles crated from each object
39. **trilateration**: a process using geometry to locate objects
source: [[@www.revolv.com/page/Trilateration](https://www.revolv.com/page/Trilateration)]
category: noun
data: known objects (static, not moving), unknown object (dynamic, could be moving)

control: it can find location of points by measurement of distances using geometry
behavior: used to locate ships
role: processing because it is a process using data from the environment
pattern: behavioral because it's a process acting on data
concern: controller because it responds to the input given
difficulty: easy because its just a simple math mathematical equation
risk: moderate, if someone where to mess up the equation it would not work
presentation: show the geometry being used from each object

Total Word Count: 4193

Part B

Vehicles

Battleship

bomber aircraft

destroyer

fighter aircraft

submarine

Weapons

Torpedo

Munition

Missile

main battery gun

depth charge

bomb

Sensors

active radar sensor

active sonar sensor

acoustic sensor

passive radar sensor

passive sonar sensor

sensor

sensor fusion

thermal sensor

Fuzes

timed fuze

thermal proximity fuze

radar proximity fuze

distance fuze

depth fuze

acoustic proximity fuze

Processes

acquisition process

engagement process

lethality process

mobility process

Maneuvers

Countermeasure

defensive maneuver

evasive maneuver

offensive maneuver

Calculations

Triangulation

Trilateration

Miscellanies

Actuator

Attenuation

Power

cross-section/reflectivity