- What determines total output in the economy?
 - The resources available assume $L = \overline{L}$ and $K = \overline{K}$.
 - The production function
 - What is that?
 - Y = f(L, K)
 - Y = nominal GDP
 - How does technology affect production?
 - $Y = f(\overline{L}, \overline{K}) = \overline{Y}$ What does this mean?
- How is Y distributed to the factors of production?
 - Assuming competition and fixed supply of inputs $(L = \overline{L} \text{ and } K = \overline{K})$.
 - P*MP = MFC for both inputs
 - How are these results similar to the isoquant/isocost approach we used in the micro section?
 - $\pi = Y MP_L * L MP_K * K$ or $Y = \pi + MP_L * L + MP_K * K$. What is the interpretation of these equations?
 - Euler's Theorem with constant returns to scale (what does that mean?) then: f(K, L) = MP_L*L MP_K* K.
 - What is the implication of Euler's Theorem? (Hint: what happens to profit?)
 - What is economic $\pi = ?$
 - What is accounting $\pi = ?$
 - How does the plague example from the book support this interpretation?
- What is Aggregate Demand for goods and services?
 - GDP = C + I + G + NX
 - Assume a closed economy => NX = 0
 - Consumption
 - $Y_d = Y T$
 - $C = C (Y T) \text{ or } C = C (Y_d).$
 - What is the marginal propensity to consume?
 - $\circ \quad C = C_A + b^* Y_d$
 - \circ C_A = autonomous consumption (intercept of consumption function)
 - \circ b = MPC (slope of consumption function)
 - Investment
 - Why does investment depend on the interest rate?
 - Which interest rate, nominal or real, does investment depend on? Why?

- How does r affect investment?
- Government Spending
 - What are the three types of government spending (hint: focus on types of governments)?
 - Which government spending is included in G and which is not?
 - Budgets
 - When is the government budget balanced, in deficit or in surplus?
 - G and T are assumed to be exogenous why? What does that mean?
 - \circ G = \overline{G} and T = \overline{T} .
- Equilibrium in the Macro Economy
 - What do we know from the demand side?
 - Y = C + I + G
 - C = C(Y T)
 - I = I(r)
 - $G = \overline{G}$
 - T = T
 - What do we know from the supply side?
 - $Y = f(\overline{L}, \overline{K}) = \overline{Y}$
 - Combine Demand and Supply equations to get
 - (1) $\overline{\mathbf{Y}} = \mathbf{C}(\overline{\mathbf{Y}} \overline{\mathbf{T}}) + \mathbf{I}(\mathbf{r}) + \overline{\mathbf{G}}$
 - What is the equilibrating variable in equation 1?
 - How does r create equilibrium?
 - Rewrite (1) to get: $\overline{Y} C(\overline{Y} \overline{T}) \overline{G} = +I(r)$
 - \circ Y C G = S so it must be the case that equilibrium requires
 - \circ $\overline{S} = I(r)$ or
 - \circ (Y T C) + (T G) = I
 - \circ Y T C = private saving
 - \circ T G = public saving
 - Know the graph and how the interest rate creates equilibrium (Hint: this is basically demand and supply of loanable funds.)
- The impact of fiscal policy and other exogenous changes in GDP
 - What is fiscal policy?
 - What happens with an increase or a decrease in G?
 - Define crowding out and how it occurs
 - Does C change when G changes?
 - Does I change when G changes?
 - Be sure that you understand exactly <u>how</u> the crowding out occurs and which sector of the economy is affected.

- What happens with an increase or a decrease in T?
 - Does crowding out occur with this change?
 - Does C change when T changes?
 - Does I change when I changes?
- What happens with an increase or a decrease in I?
 - Why does I(r) change?
 - Given the above assumptions, if I(r) shifts right does equilibrium I increase?
 - How does the above answer change if C is also a function of the interest rate (C = C(r))?