

## QUIZ THREE REVIEW SHEET

### VOCABULARY

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greenhouse effect

IPCC (who and what)

anthropogenic

### CONCEPTS

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#### CLIMATE CHANGE

Basic principles on how the greenhouse effect works

Anthropogenic inputs of carbon dioxide identified as key factor in climate change

Climate change has been studied for over 100 years; theory resulted from identification of the greenhouse effect in the mid 19<sup>th</sup> century

Consensus on global warming built on decades of research and monitoring

Greenhouse gases include carbon dioxide, methane, nitrous oxide, and CFCs (chlorofluorocarbons)

Carbon dioxide levels were around 280 ppm before industrial revolution and are steadily increasing, now almost 400 ppm

Earth today has a much greater amount of energy (enough to increase average temps between 1 and 1.7 degrees F) due to the additional carbon dioxide added by human activity (anthropogenic causes)

Where is most of the energy going? (see “Where is global warming going”)

Know “The Fourth Assessment...” slide

Know the “Potential Consequences of Global Warming” slides

2 degrees Celsius represents current estimate of when we “lose control” of climate due to positive feedback loops (such as those in the Arctic we discussed)

Slides about statement from Joint Academies of Science

Arctic amplification slide

Economics slides, costs for prevention/mitigation are less than future damage predictions

Conclusion

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